

By Courier & Email

Office of the General Counsel

January 3, 2017

Donna Jerry Senior Health Policy Analyst Green Mountain Care Board 89 Main Street, Third Floor, City Center Montpelier, VT 05620

Re: Letter of Intent and Certificate of Need Application for an Electronic Health Record Replacement Project

Dear Donna:

On behalf of The University of Vermont Medical Center, I am pleased to submit the following documents in connection with our Certificate of Need application for the replacement of the current electronic health records and related information technology systems ("EHRs") at UVM Medical Center and three of the UVM Health Network's other member hospitals with a unified EHR system (the "Project"):

- 1. Letter of Intent, requesting expedited review;
- 2. Verification under Oath, signed by John Brumsted, MD;
- 3. Certificate of Need Application with:
 - a. A Narrative Description of the Project;
 - A detailed response to the applicable CON criteria, including the HRAP CON standards;
 - c. Financial Tables; and

Jun R. Koggs

d. Applicable attachments to the CON application.

Since we are requesting expedited review, we understand that your office will take care of the public notice requirements in accordance with 18 V.S.A. § 9440(c)(5). I also understand that your office will invoice us for the application fee.

We look forward to receiving your decision on our request for expedited review and to working closely with you during the review process. If you or any members of the GMCB staff have questions concerning our application materials, please feel free to contact me any time.

Thank you.

Very truly yours,

Spencer R. Knapp, Esq. Sr. VP and General Counsel



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Office of the General Counsel

January 3, 2017

Donna Jerry Senior Health Policy Analyst Green Mountain Care Board 89 Main Street, Third Floor, City Center Montpelier, VT 05620

Re: Letter of Intent for an Electronic Health Record Replacement Project

Dear Donna:

In accordance with 18 V.S.A. § 9440b and the Certificate of Need Program Rule 4.000 ("Rule 4"), the University of Vermont Medical Center ("UVM Medical Center") is filing this Letter of Intent and the enclosed Certificate of Need application, seeking expedited approval, with such abbreviated process as the Green Mountain Care Board ("GMCB") determines is appropriate, of a project to replace the current electronic health records and information technology systems at UVM Medical Center and three other UVM Health Network hospitals with a unified electronic health record system (the "Project").

With its adoption of 18 V.S.A. § 9440b, the Vermont legislature amended the CON law to authorize the GMCB to "establish by rule standards and expedited procedures for reviewing applications for the purchase or lease of health care information technology that otherwise would be subject to review," with such applications being granted if they are consistent with the Health Information Technology Plan and the Health Resources Allocation Plan. Consistent with its statutory authority and in recognition of the need to expand the use of integrated health information technology for improved patient care, the GMCB then adopted § 4.304(1)(b) of Rule 4, which permits expedited review for all CON applications for health information technology, regardless of cost.

This application requests the approval of a Project to establish a unified electronic health records system ("EHR") across the four UVM Health Network hospitals that are in closest proximity to one another: UVM Medical Center, Central Vermont Medical Center, Champlain Valley Physicians Hospital and Elizabethtown Community Hospital. The Project, if approved, would replace a patchwork of disparate and obsolete EHR systems that do not adequately communicate with each other and do not meet today's requirements for data needs and outcomes measurement. As described in the CON application, the Project satisfies all applicable requirements of the statewide Health Information Technology Plan and the Health Resources Allocation Plan. Most importantly, the Project will satisfy the needs of our patients for more timely and better coordinated care, as their clinical information will be readily accessible to UVM Health Network providers when they transition their care across different UVM Health Network settings. This will not only enhance communication and collaboration between patients and their UVM Health Network providers, but it will also improve our ability to transmit aggregated data to the Vermont Health Information Exchange, which is a fundamental goal of the Health Information Technology Plan.

Under Rule 4 and 18 V.S.A. § 9440b, we believe that this application meets all requirements for expedited review and that the GMCB may grant a Certification of Need upon a finding that it is consistent

with the Health Resources Allocation Plan and the Health Information Technology Plan, and we respectfully request that the GMCB do so.

In accordance with 18 V.S.A. § 9440(c)(2) and the underlying CON regulations and guidelines, we provide the following information concerning the Project, which is amplified in the enclosed application:

Project Scope: The Project involves expanding UVM Medical Center's license of its

Epic electronic health records system to serve as the unified EHR across the UVM Health Network hospitals. The Project's total capital cost is \$112.4 million. Although only capital expenditures are subject to CON review in HIT projects, the Project also entails net operating expenses of

\$42.4 million over a six-year implementation period.

<u>Project Rationale</u>: UVM Health Network's existing EHR systems, including revenue cycle

and scheduling systems, are obsolete and require replacement in order to meet today's standards for clinical care, scheduling, and population

health management.

<u>Need to be Addressed</u>: The Project will provide greater coordination of care for patients and

improved access to medical information for patient's clinicians. It will also improve UVM Health Network's ability to transmit information to

the Vermont and New York health information exchanges.

Cost, Access, Quality: The Project will provide continued patient access and improve the

quality of our services without any significant increase in our costs or

charges.

<u>Location</u>: UVM Medical Center, as the academic medical center hub of UVM

Health Network and licensee of the Epic EHR, will host the unified EHR

and sub-licensee it to the other UVM Health Network hospitals.

Service Area: Vermont and the New York counties of Essex, Warren, Washington,

Clinton, Franklin and St. Lawrence, with a combined population of

approximately one million persons.

<u>Projected Expenditures</u>: Capital expenditures of \$112.4 million, and net operating expenses of

\$42.4 million.

We look forward to working with you and your staff during the review process for this application.

Very truly yours,

Spencer R. Knapp, Esq. Sr. VP and General Counsel

Jun R. Koggs

STATE OF VERMONT GREEN MOUNTAIN CARE BOARD

| In re: | The University of Vermont Medical Center Inc. |) |
|--------|--|---|
| | Application for Certificate of Need to Replace |) |
| | Electronic Health Record Systems |) |
| | Capital Expenditure: \$112.4 million |) |

JOHN R. BRUMSTED, M.D., being duly sworn, states on oath as follows:

- 1. My name is John R. Brumsted, M.D. I am the Chief Executive Officer of The University of Vermont Medical Center Inc. and President and Chief Executive Officer of The University of Vermont Health Network Inc. I have reviewed the foregoing Certificate of Need Application.
- 2. Based on my personal knowledge, after diligent inquiry, the information contained in the Application is true, accurate and complete, does not contain any untrue statement of a material fact, and does not omit to state a material fact necessary to make the statement made therein not misleading, except as specifically noted herein.
- 3. My personal knowledge of the truth, accuracy and completeness of the information contained in the Application is based upon either my actual knowledge of the subject information or, where identified below, upon information reasonably believed by me to be reliable and provided to me by the individuals identified below who have certified that the information they have provided is true, accurate and complete, does not contain any untrue statement of a material fact, and does not omit to state a material fact necessary to make the statement made therein not misleading.
- 4. I have evaluated, within the 12 months preceding the date of this affidavit, the policies and procedures by which information has been provided by the certifying individuals identified below, and I have determined that such policies and procedures are effective in ensuring that all information submitted or used by The University of Vermont Medical Center Inc. in connection with the Certificate of Need program is true, accurate, and complete. I have disclosed to the Board of Trustees all significant deficiencies, of which I have personal knowledge after diligent inquiry, in such policies and procedures, and I have disclosed to the Board of Trustees any misrepresentation of facts, whether or not material, that involves management or any other employee participating in providing information submitted or used by The University of Vermont Medical Center Inc. in connection with the Certificate of Need program.
- 5. The following certifying individuals have provided information or documents to me in connection with the Application, and each such individual has certified, based on his or

her actual knowledge of the subject information or, where specifically identified in such certification, based on information reasonable believed by the certifying individual to be reliable, that the information or documents they have provided are true, accurate and complete, do not contain any untrue statement of a material fact, and do not omit to state a material fact necessary to make the statement made therein not misleading:

- (a) Adam Buckley, MD, Chief Information Officer, UVM Health Network. This individual certified to the accuracy of the description of the Project and the existing electronic health record systems ("EHR") at the applicable UVM Health Network hospitals as described in the Application, including all information regarding the implementation plan for the unified EHR across the participating UVM Health Network hospitals, the costs associated with the Project, and the clinical and operational need for the Project.
- (b) Marc Stanislas, Director, Finance, UVM Health Network. This individual certified to the accuracy of all financial information submitted with the Application, including the Financial Tables and the underlying financial assumptions associated with the financial feasibility analysis.
- 6. In the event that the information contained in the Application becomes untrue, inaccurate or incomplete in any material respect, I acknowledge my obligation to notify the Green Mountain Care Board, and to supplement the Application, as soon as I know, or reasonably should know, that the information or document has become untrue, inaccurate or incomplete it any material respect.

JOHN R. BRUMSTED, M.D.

On January 2017, JOHN R. BRUMSTED, M.D. appeared before me and swore to the truth, accuracy and completeness of the foregoing.

Notary Public

My commission expires _

HELEN CABOT MCCARTHY NOTARY PUBLIC

State of Vermont

STATE OF VERMONT GREEN MOUNTAIN CARE BOARD

CERTIFICATE OF NEED APPLICATION by THE UNIVERSITY OF VERMONT MEDICAL CENTER for AN ELECTRONIC HEALTH RECORD REPLACEMENT PROJECT

Dated January 3, 2017

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CERTIFICATE OF NEED APPLICATION by THE UNIVERSITY OF VERMONT MEDICAL CENTER for AN ELECTRONIC HEALTH RECORD REPLACEMENT PROJECT

SECTION I DESCRIPTION OF THE PROJECT

A. OVERVIEW

The University of Vermont Medical Center ("UVM Medical Center") (the "Applicant"), the academic medical center hub of the University of Vermont Health Network ("UVM Health Network") or the "Network"), submits this Certificate of Need Application (the "Application") to the Green Mountain Care Board ("GMCB") in accordance with 18 V.S.A. Section 9434(b)(1). The Application requests a Certificate of Need ("CON") approving a project to replace the current electronic health records and related information technology systems ("EHRs") at the UVM Medical Center and three of the UVM Health Network's other member hospitals with a unified EHR system (the "Project") to be purchased from Epic Systems Corporation ("Epic Systems").

The unified EHR will integrate health, clinical, registration, billing, scheduling, the patient portal and insurance information into one system that will improve patients' experience of care while giving them, their families and their providers access to consistent, timely and accurate information regardless of where in the Network care is delivered. The Project is essential to provide the UVM Health Network with the IT tools it needs to carry out its leading role in health reform initiatives.

The capital costs associated with the Project and subject to CON review under 18 V.S.A. § 9434(b)(1) are \$112.4 million, including \$3.1 million in capitalized interest.

In planning for this project the UVM Health Network has developed a "Total Cost of Ownership" ("TCO") analysis. The TCO includes both the capital costs and operating expenses associated with the Project over a period of time that extends beyond the actual implementation period. The TCO for the Project over a six-year period is \$151.6 million.¹ The TCO informed the UVM Health Network's analyses of the financial impact and feasibility of the Project, as detailed later in the Application, so as to ensure a complete understanding of its costs to our organizations.

¹ As explained in more detail in Section E, "Project Finances," TCOs include only cash costs of projects. Non-cash costs, like capitalized interest and depreciation, are not included.

The capital expenditures of \$112.4 million will be made by the UVM Medical Center, which will own the Project's capital assets. The associated net operating expenses identified in the Project's six-year TCO are \$42.4 million. Those operating expenses, apart from depreciation, are to be allocated proportionately to participating Network hospitals annually based on patient volumes. As the owner of the Project's capital assets, the UVM Medical Center will account for all of the Project's depreciation expenses.

Because the Project involves the purchase of health information technology ("HIT"), pursuant to 18 V.S.A. § 9440b the Applicant is seeking expedited review of the application.²

1. Project Description and Objectives

The objective of this Project is to improve both patient care as well as the care experience by replacing the existing disparate and outdated HIT systems at four of the five member hospitals of the UVM Health Network with a single-platform, unified EHR system from Epic Systems, the nation's leading vendor and the same company that provided the UVM Medical Center with its clinical information system in 2008.³ If the Project is approved, the UVM Medical Center's other systems would be replaced with the Epic platform and the unified Epic-based EHR platform would be extended from the UVM Medical Center, as the licensee, to three of the Network's other hospital affiliates.

The UVM Health Network currently comprises five member hospitals: UVM Medical Center and CVMC in Vermont, and Champlain Valley Physicians Hospital ("CVPH"), Elizabethtown Community Hospital ("ECH"), and Alice Hyde Medical Center ("Alice Hyde") in New York. Alice Hyde is not included in the Project, as it was not a member of the UVM Health Network during the extensive planning process that led to its development. We believe Epic can be implemented at Alice Hyde in the future, following completion of this Project, without substantial incremental capital expenditures. For purposes of this Application, subsequent references to the UVM Health Network mean the four hospitals impacted by the Project.

Each UVM Health Network hospital currently has many different systems to care for patients. For example, CVMC has different systems for inpatient care, Emergency Department ("ED")

² It has also been determined that a separate conceptual CON review of HIT applications is not required. *See* Statement of Decision, *In re Fletcher Allen Health Care, Purchase and Installation of Electronic Health Record System*, Docket No. 07-069-H (March 2008).

³ The Epic EHR implementation at UVM Medical Center was authorized by a CON issued in April 2008, approving a total capital expenditure of \$57.2 million plus \$31.9 million in net operating costs over a three-year implementation period and the first two years of operation (see *In re Fletcher Allen Health Care, Purchase and Installation of Electronic Health Record System*, Docket No. 07-069-H). Following issuance of the CON, the Epic clinical system was completed within the implementation schedule without disruption in patient care or operations and at a cost significantly less (\$4.2 million) than the CON-approved budget. The system has functioned as intended ever since.

care, and operating room care. Similarly, the UVM Medical Center has different systems for lab testing, radiology imaging, operating rooms, billing and scheduling. Two of the core systems at both are more than twenty years old and need to be replaced, as do other systems for a variety of reasons. Some of these systems are no longer supported by their vendors, or are not fully compliant with federal requirements. Because of these deficiencies, the existing systems do not guarantee that all necessary information is available when and where it is needed, and communication between them can be inconsistent and untimely, which can disrupt or adversely impact patient care. It also creates difficulties for patients trying to navigate the care delivery system. The disparate systems also make it difficult for the UVM Health Network to measure outcomes effectively or standardize care across the Network, which is necessary to improve the overall health of the populations we serve and slow the growth of health care costs.

Continued investment in these existing systems would be both expensive and wasteful, costing up to \$200 million. Instead, the UVM Health Network seeks to replace the existing EHRs with a single-platform unified EHR from Epic.

The benefits of a unified EHR across the UVM Health Network are many and reflect the "Triple Aim" of improving the patient's experience of care, improving the health of populations, and reducing health care costs:

- Patients and their families will have accurate, timely and up-to-date information available 24/7.
- One patient portal (MyHealth Online) across the Network will allow patients and family members to access health, billing, scheduling and insurance information at their fingertips.
- Patients will be able to schedule appointments online, check lab tests and results, and communicate more easily with their providers.
- Patients and their families will not have to worry about or be responsible for making sure that different providers or facilities have the most current information available to them when they seek care; instead, all providers will have access to the same information, regardless of where within the Network the service is being delivered.
- The unified EHR will enhance communication and collaboration between UVM Health Network providers and community providers (those not employed by one of our hospitals).
- Ultimately, such a system will improve our ability to coordinate patients' care both locally and across our service area.
- A unified EHR will also enhance information security and patient privacy by reducing the risks inherent in multiple IT systems and enhancing our audit capabilities.

2. Project Costs

The Project's capital expenditures are \$112.4 million, including \$3.1 million of capitalized interest.

However, as noted earlier, in planning for the successful implementation of an HIT project of this size and scope, understanding the full impact on the organization is key. A TCO analysis,

which is considered best practice in planning for major HIT projects, is the preferred methodology for computing the costs of implementing EHRs, since a TCO will capture not only the purchase price of the software and hardware involved, but the costs of installing, training, deploying, operating, upgrading, and maintaining the same assets over a defined period of time.⁴

With the assistance of Cumberland Consulting Group ("Cumberland Consulting"), a national HIT implementation and support services firm, and Epic Systems, the UVM Health Network has developed a detailed analysis of the Project's cash costs and determined that the TCO for this Project is \$151.6 million over a six-year period, including capital expenditures of \$109.3 million and operating expenses of \$42.4 million. (For purposes of this Project, the TCO includes pre-implementation expenses in FY 2017, capital and operating expenses from FY 2018 through FY 2021 while the Project is being implemented, and operating expenses through FY 2022.)

The capital costs in the TCO include hardware and software costs, licensing fees, internal and external staffing costs, and other associated costs. The net operating expenses include similar expenses, and also take into account anticipated expense offsets, primarily related to offsets for legacy systems that will be replaced by Epic products and associated staff changes. All of these costs will be discussed in detail in Section E ("Project Finances"), below.

Cumberland Consulting has provided its opinion as an expert in this field that the TCO is accurate and complete and includes all of the cash expenses associated with this Project (see Exhibit A).

While the costs of the Project are substantial, the UVM Health Network estimates that updating, maintaining and replacing the existing systems across the UVM Health Network over a similar period of time could cost up to \$200 million, without any of the benefits to our patients and providers of moving to a unified EHR. On that basis, we have concluded that any alternative to this Project for replacing existing systems would be more costly, wasteful and imprudent.

As discussed in Section E ("Project Finances"), in light of the many changes in health care funding that are on the horizon, the UVM Health Network's leadership has taken active steps to reduce overall capital spending and rigorously prioritize capital investments. Because of its system-wide scope and its beneficial impact on patients and providers – and because it will ultimately support the Network's ability to manage the health of the populations it serves – the Project has been given precedence over other potential capital intensive investments.

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⁴ UVM Medical Center similarly developed a TCO for the 2008 CON application seeking approval for implementation of its EHR system (see Fletcher Allen Health Care, Purchase and Installation of Electronic Health Record System, Docket No. 07-069-H). That TCO showed a total project cost of \$89.1 million, including capital expenditures of \$57.2 million plus \$31.9 million in net operating costs over a three-year implementation period and the first two years of operation.

⁵ As noted earlier, TCOs do not include non-cash costs, like capitalized interest. Thus, this figure does not include the \$3.1 million in capitalized costs that are included in this application for purposes of the CON review.

The UVM Health Network has also made significant changes to its financial plans in order to offset the substantial costs of this Project, especially the depreciation costs that will be expensed over only five years. These changes include approximately \$104 million in annual budget adjustments that will be implemented over the next six years. These adjustments will have the effect of maintaining the operating margins of the UVM Medical Center and the UVM Health Network within the benchmarks for A-rated health systems. These budget adjustments and the related financial forecasts are explained in greater detail in Section E, below.

3. Financial Feasibility

Successful implementation of the Project will not require any borrowing or any rate increases linked to the Project. This is because the Project expenditures are included in the UVM Health Network's five-year capital plan (FY 2016 – FY 2020) and our long-term financial framework. These were developed as a model for managing our spending, both capital and operating, over a period of years while maintaining our A bond rating within the budget parameters established by the GMCB. As indicated above, the UVM Health Network will also implement approximately \$104 million of adjustments in its financial framework to offset the substantial costs of the Project, and these have been incorporated in the financial framework for both the UVM Medical Center and the UVM Health Network (see Section E, below). With these adjustments, we are confident that the Project can be undertaken without jeopardizing the Network's bond rating or requiring substantial increases in revenue.

Ponder & Co., the UVM Health Network's independent financial adviser, has been engaged to review the projected financial impact of the Project, as reflected in a 10-year financial forecast for both the UVM Health Network and the UVM Medical Center, and to provide its independent opinion as to the Project's financial feasibility. The Ponder opinion letter will be filed upon receipt.

Section E provides a more detailed discussion of the Project's finances and feasibility, including discussion of the Network's strategic decisions to prioritize capital spending choices.

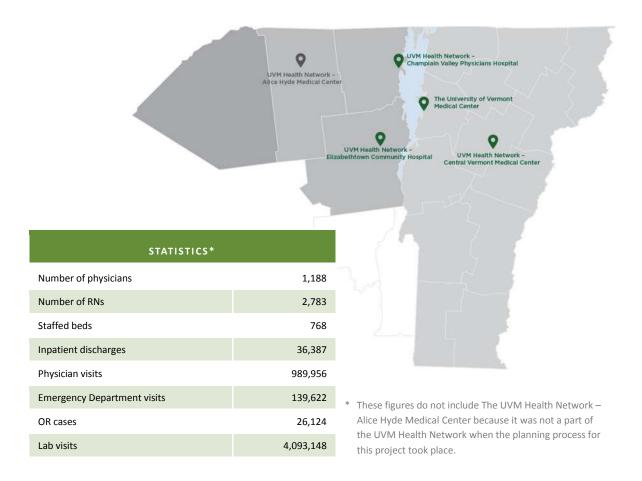
4. Timetable

The Project's 40-month implementation schedule has been developed to maximize staffing efficiencies while minimizing costs, especially the use of external consultants, as is discussed in more detail in Section D ("Project Description").

B. PROJECT NEED AND RATIONALE

As noted above, the EHRs of four of the UVM Health Network's member hospitals are the focus of the Project. These organizations provide a broad range of services in numerous settings across Vermont and northern New York:

- The Applicant, the UVM Medical Center, based in Burlington, Vermont, is the primary teaching hospital for the Larner College of Medicine and the College of Nursing and Health Sciences at the University of Vermont. Together, these institutions comprise Vermont's only academic medical center. It employs approximately 650 physicians, who also teach and conduct research at the College of Medicine, and has a total medical staff of approximately 800 providers. In addition to its 495 staffed inpatient beds, the UVM Medical Center operates eleven primary care practices in Chittenden County, five outpatient renal dialysis units in Vermont, and over 30 patient care sites and 100 outreach clinics, programs and services throughout Vermont and northern New York. It serves approximately one million residents in Vermont and northern New York.
- CVMC, based in Berlin, Vermont, is the primary health care provider for 66,000 people who live and work in central Vermont. CVMC staffs 78 inpatient beds, and provides 24-hour emergency care, a full spectrum of inpatient services, and outpatient services. Its professional staff includes over 121 physicians and more than 60 associate providers. In addition to care provided at the hospital, CVMC also operates 23 community-based medical group clinics and local physician practices in Washington County. CVMC's skilled nursing facility, Woodridge Rehabilitation and Nursing, offers a full range of nursing and rehabilitation services, including physical therapy, occupational therapy and speech therapy.
- CVPH, located in Plattsburgh, New York, provides acute care at its hospital (215 staffed beds) with a medical staff of about 170 physicians. CVPH offers a full spectrum of health care services to the rural communities it serve including the FitzPatrick Cancer Center, a Joint Care Center and a Progressive Women & Children's Center, two primary care clinics, more than 20 patient care sites and 10 outreach clinics, programs and services throughout northern New York, a 54-bed skilled nursing facility, residency programs in family medicine, pharmacy, and nursing, and a School of Radiologic Technology.
- ECH, located in Elizabethtown, New York, is a 23 staffed bed critical access hospital with a medical staff of more than 70 physicians. Its services include primary care, specialty care, physical and occupational therapy, radiology, chemotherapy, cardiac rehabilitation, and emergency care.



These organizations and providers currently use a hodgepodge of clinical, billing, and ancillary systems, including four different inpatient systems (used in the acute-care setting), five different ambulatory systems (physician offices and outpatient clinics), five different RCM systems (used for patient registration, scheduling, insurance and billing), and a number of other ancillary systems for labs, operating rooms, EDs, cardiology and radiology departments. The table below summarizes the systems currently in use at each organization:

| Organization | Inpatient Clinical System | Inpatient Financial System | Ambulatory Clinical System | Ambulatory Financial System | Clinical Ancillary Systems |
|--------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|--|
| UVM Medical Center | Epic | GE | Epic | GE | Optum (OR) Sunquest (lab) GE (imaging) Merge (cardiology) |
| CVMC | Meditech | Meditech | eClinical Works | eClinical Works | Picis (ED) Philips (imaging) Merge (cardiology) |
| CVPH | Soarian | Soarian | GE Medent Paper | Soarian Medent None | ORSOS (OR) Sunquest (lab) Siemens (imaging) McKesson (cardiology) |
| ECH | CPSI | CPSI | GE | GE | CPSI |

The age and usefulness of these separate systems varies greatly. CVMC's current inpatient system, Meditech, will require a significant investment in the near future to move from their legacy platform (Magic) to either their 6.15 platform, or implement an EHR with another vendor to eliminate the patchwork of current EHRs across its clinical locations. While the UVM Medical Center's current RCM application (a GE Healthcare product) is still functional, from a

clinical standpoint it has reached the end of its useful life, as it does not communicate seamlessly or reliably with the existing Epic system. Similarly, CVPH uses Soarian for its inpatient clinical and RCM systems. Originally developed by Siemens, Soarian was acquired by Cerner Corporation ("Cerner") in the summer of 2014. Cerner, which offers a competing platform, has informed CVPH that it will support Soarian until 2024, at which time the hospital will either need to have moved to Cerner's platform or lose any ongoing support for Soarian. Additionally, some of CVPH's providers still use paper records.

We could replace and maintain this patchwork of systems for the foreseeable future, but after consideration that option was rejected for a number of reasons:

- The current hodgepodge of systems is burdensome for both our patients and the providers who care for them. Patients have limited access to their clinical information and little or no ability to schedule appointments or interact with their providers easily and smoothly. Providers, for their part, can find themselves without the information they need at their fingertips to ensure that they are helping their patients to make the best and most timely care decisions. They also have to work on multiple platforms, which takes significant time away from caring for their patients.
- It is both expensive and wasteful to manage, update and maintain so many different systems. We estimate that it would cost up to \$200 million in the coming years to upgrade and replace the current systems on an as-needed basis. Some of those costs such as the hundreds of interfaces now needed so that the systems can "talk" to each other can be avoided by moving to a unified EHR.
- It is unsustainable to manage so many systems, some of which are outdated or archaic, others of which are no longer being updated. Every update to one of the systems impacts the others with which it must interact, which in turn presents a risk of failed communications or a lack of timely information.
- As EHRs have continued to mature, it is becoming the industry standard for academic medical centers and health care systems with multiple facilities and service sites to use a unified EHR. Examples include the Mayo Clinic, Yale New Haven Health System, MaineHealth and Partners Healthcare.
- Changing regulatory standards are increasingly incentivizing hospitals and providers to invest in systems that will promote patient safety and support the data needs and outcomes measurement requirements of our evolving health care system. Failure to have the systems necessary to meet those requirements could bring unnecessary risks to our patients and to how our physicians and hospitals are reimbursed.

As we considered how best to proceed given the current needs of the UVM Health Network for replacements of or upgrades to existing systems, we concluded that implementing a unified EHR across the Network would both provide significant benefits to our patients and our providers while being the most prudent approach financially.

As noted earlier, unified EHRs are becoming the standard in health systems. As the most up-to-date and mature EHRs, they empower patients and their providers with better tools to manage their care. A unified EHR will enable each patient to have a comprehensive record that is shared across all providers and facilities in the UVM Health Network from whom they get care. It will also make it easier for patients because their registration, scheduling and billing information will

be completely integrated into the EHR, so there will be no need for multiple interactions with different providers to make sure they all have up-to-date and accurate information.

In addition to the many benefits outlined in Section A(1) ("Overview – Project Description and Objectives") above, this Project is also necessary if the UVM Health Network is to be successful in its commitment to moving away from fee-for-service medicine to population health management.

In Vermont, we have been active participants in existing value-based payment programs, including the three shared savings programs (Medicare, Medicaid and commercial payers) that have been in existence for several years. Our affiliated Accountable Care Organization ("ACO"), OneCare Vermont, has been chosen by CMS as one of the first "Next Generation" ACOs, with that program slated to begin in 2017. In addition, leaders from the UVM Health Network have been at the table helping to develop the framework for a statewide ACO that would support an "All-Payer Model" to effectively transform the way health care is delivered and paid for in the state.

The UVM Health Network has been engaged in similar population health activities in New York through its affiliate, the Adirondacks ACO, which is partnering with Adirondack Health Institute, a medical home project in northeastern New York that expects to be funded under New York's DSRIP (Delivery System Reform Incentive Payment) program in population health management initiatives with the objective of lowering costs and reducing avoidable hospital admissions.

Having a unified EHR will support our successful transition to population health management both in Vermont and New York by allowing us to use clinical data to monitor care trends and better coordinate care for at-risk populations using standardized practices across the Network.

The Project will also support the academic mission of the UVM Health Network by allowing researchers to integrate research recruitment into patient care, expanding recruitment to locations outside the UVM Medical Center, enhancing communication with study coordinators, and allowing researchers to more accurately follow their patients as they move through the health care system.

A unified EHR will also have a positive impact on non-Network hospitals, independent practices and community providers. The UVM Medical Center alone currently exchanges patient health information with these providers via the state's health information exchange (run by Vermont Information Technology Leaders, or "VITL"), a messaging service through Surescripts that allows the secure exchange of continuity of care documents, and directly through Epic's record sharing system called Care Everywhere. This record sharing includes direct EHR-to-EHR transmission of electronic information (with patient consent). To give a sense of scale, in the first ten months of calendar year 2016, the UVM Medical Center alone exchanged over 635,000 pieces of clinical information using these various methods across 49 states, more than 730

hospitals, 920 EDs, and 20,440 clinics. Having a record that now includes all of a patient's care across the UVM Health Network enhances the value of those connections.⁶

In addition to exchanging information electronically, many local and regional providers currently have access to the UVM Medical Center's Epic system through a function known as Epic Care Link. While this is not a "full version" of the EHR, this gives those providers access to some functions, like ordering tests and medications. There are currently more than 1,300 Care Link users, including providers of all types and organizations, ranging from skilled nursing facilities to private practices to dental offices. UVM Medical Center also offers "read only" access to providers who do not need any ordering capabilities; this function is used by about 600 providers. A unified EHR that contains information across the UVM Health Network will support better coordination across the care continuum, regardless of whether or not the provider or hospital is part of the Network.

In addition to serving as a platform for the UVM Health Network's establishment of a unified EHR, under the Epic Connect program described in more detail in Section III, CON Criterion 3, below, the Project can also be used to bring independent physician practices, hospitals, federally-qualified health centers and other providers onto the unified EHR through a license agreement. This would create even greater clinical efficiencies as these providers could be included in the UVM Health Network's shared medical records system (*i.e.*, one medical record for all patients). Some independent providers have already expressed interest in licensing the UVM Health Network's unified EHR, and this is something that we will explore further if this application is approved.

A unified EHR across the UVM Health Network will also enhance information security and patient privacy. Currently, we must maintain security and privacy standards for various systems that communicate through a variety of interfaces. Moving to a unified system will reduce the risks inherent in that kind of arrangement, while enhancing our auditing capabilities. We also have the confidence of knowing that we are partnering with a vendor that is compliant with all existing regulatory standards for security and privacy.

The alternative to this Project is to maintain, update and replace the many HIT systems being used by our hospitals and physician practices as needed, including major updates or replacements that are urgently needed at CVMC and our partner hospitals and practices in New York. We estimate the costs of this approach could cost up to \$200 million over the same six-year period analyzed in planning for the Project. Not only are the costs above those for the Project as proposed, but our patients and providers would continue to experience the current challenges and inefficiencies of the existing hodgepodge of systems.

⁶ See the "Interoperability Exchange Statistics" report produced by Epic for UVM Medical Center, attached as Exhibit B.

C. PLANNING PROCESS

The Project was planned over the course of approximately 18 months.

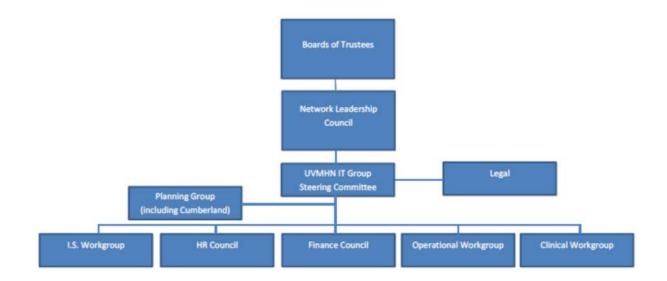
In 2014, as part of its regular review of organizational IT needs, the UVM Medical Center engaged Cumberland Consulting and Epic Systems to develop a plan for updating or replacing the UVM Medical Center's RCM and ancillary systems with an Epic system that would unify the Medical Center's EHR.

That work led to a decision in 2015 to explore the costs and benefits of extending Epic as a unified EHR across the Network. A steering committee was formed and charged with analyzing the costs and organizational and patient impacts of a Network EHR replacement project. Teams from different parts of the UVM Medical Center and the Health Network were involved in this process, including representatives from clinical, operations, finance, human resources, legal, compliance, and information services departments. The teams also included consultants from Cumberland Consulting.

Their work encompassed many elements, including reviewing the rationale for the Project and its strategic fit, assessing its impact on operations, human resources and facilities, the Project's financial feasibility, quality and success measures, and the development of an implementation timeline, key milestones, a risk assessment and alternatives, and risk mitigation strategies.

Once that work was completed, the Project was reviewed and approved by a series of groups, including executive leadership teams at each Network entity, their boards, the Network Leadership Council, and finally the UVM Health Network Board of Trustees.

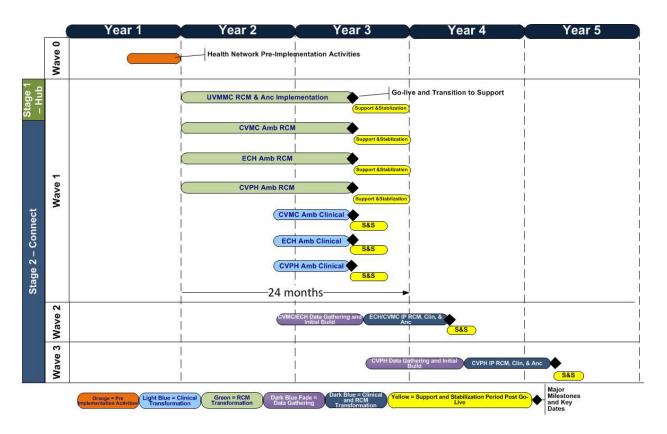
The following chart illustrates the groups involved in the planning process:



D. PROJECT DESCRIPTION

The Project proposes to convert all current inpatient and ambulatory records, clinical ancillary systems (lab, imaging, operating rooms, anesthesiology, etc.), and RCMs within the UVM Health Network to a unified EHR using Epic. It is important to note that the product we plan to implement is an off-the-shelf system that requires little customization, which simplifies the implementation and use of the new EHR while allowing us to manage the costs as tightly as possible.

In order to maximize efficiencies, keep costs down, and reduce risks, implementation of the Project will be staggered over 40 months to ensure staff have the time they need to train and begin use of the new system.⁷ This staggered process also allows us to keep costs down as we deploy implementation teams to bring each system online essentially one at a time, reducing the number of external personnel needed, since internal staff will be trained on an ongoing process throughout the implementation period. The implementation phasing is illustrated below:



The Project will be overseen by the UVM Health Network Epic Connect Steering Committee, consisting of members of senior executive and clinical leadership within the Network. The Epic Connect Steering Committee, which will report progress to the Network Leadership Council

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⁷ The implementation timeframe – 40 months – should not be confused with the six-year TCO that was developed to give us a full picture of the Project's costs. As noted earlier, a TCO is used to ensure that we have a complete picture of all spending associated with the Project for a stated period of time.

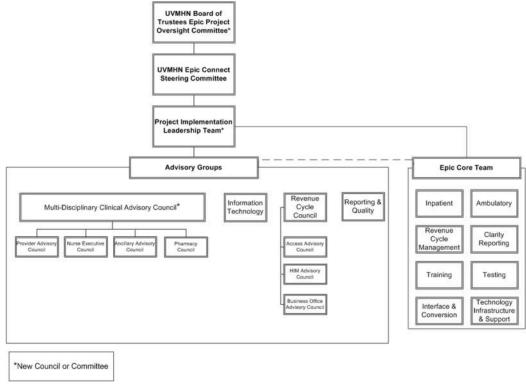
(comprising senior leaders from across the Network), will have ultimate authority and responsibility for the project and will address all major decisions related to the business plan (e.g., scope, approach and risks).

The actual implementation of the Project will be the responsibility of a Project Implementation Team, whose members would typically include an overall project manager, as well as project managers for each IT functional area (clinical, testing, RCM, etc.). This team will be partnered with clinical and operational leaders, including chief medical officers, chief nursing officers, and chief information officers, from across the Network. In addition to its responsibilities to the Epic Connect Steering Committee, the Project Implementation Team will have advisory and reporting relationships with a number of entities as defined in the organization chart below. The team will report to these groups on a routine basis to ensure consistent two-way communication as the Project progresses. This governance process will commence immediately after the Project begins and will be in effect throughout the implementation period.

In addition, the UVM Health Network Board of Trustees will establish an *ad hoc* Project Oversight Committee to oversee the Project and report to the Board of Trustees.

Finally, we will report in writing on the Project's progress on a regular basis to the GMCB as required under any CON issued, and would be happy to update members and staff in person on a regular basis during regularly-scheduled GMCB meetings.

The chart below is a graphic illustration of the Project's governance organization. A scaled-down version of the same structure will be used after the implementation is complete in order to ensure successful submission, review and tracking of subsequent optimization projects.



In addition to the internal staff involved in the Project, the UVM Medical Center has chosen Cumberland Consulting to serve as its primary project manager. Their support services will include timeline tracking, deliverable maintenance, status updates and overall implementation project / budgeting support. Cumberland Consulting was chosen after a rigorous request for proposal ("RFP") process that was managed by The Advisory Board Company, a national health care consulting firm. Cumberland Consulting is considered a top performer by KLAS, 8 a source of client-based research on health care software vendors and services, and ranks high in overall advising as well as implementation services. It routinely assists in 6-9 Epic implementations a year.

We note that because some of the spending associated with the Project will occur in New York, the Project will be subject to CON review by the New York Department of Health.

E. PROJECT FINANCES

Regional Capital Planning

The UVM Health Network has a Network-wide business planning process to ensure that major capital investments are planned on a system-wide basis that takes into account regional needs, not simply the needs of individual hospitals or service areas. The process includes representatives from the Network members' operations, planning and finance teams.

Prioritization of Network Capital Spending

Consistent with our drive towards population health, greater affordability, and the expectation that revenues will continue to decrease over time, any capital investments we make must be tightly managed and prioritized. Over the past several years this process has led to an overall decrease in planned long-term capital spending for the UVM Health Network, from five-year projected capital spending of \$773.2 million (FY 2015 budget) to \$697.0 million (FY 2017 budget).

As the capital "envelope" is shrinking, we must prioritize which programs and projects are funded. Those decisions involve a broad array of individuals in our organizations, who balance competing capital needs. We believe our long-term capital plans are balanced between what we need to invest in patient care operations and the continuing investments necessary to support population health management.

TCO Analysis

As noted earlier, with the assistance of Cumberland Consulting and Epic Systems, the UVM Health Network has developed a detailed TCO analysis of the Project's cash costs and

⁸ KLAS is an independent firm that uses independent feedback from HIT users to review health information technology software and services. It is considered by most in the field to be the leading organization for the evaluation of HIT products.

determined that the total net cost of ownership for this Project is \$151.6 million over a six-year period, as outlined in the following table:

| Cost Estimate | | FY17 | FY18 | FY19 | FY20 | FY21 | FY22 | TOTAL |
|--|----|-----------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Epic Software Costs | \$ | - | \$ 3,990,626 | \$ 4,297,367 | \$ 6,061,808 | \$ - | \$ - | \$ 14,349,800 |
| Epic Implementation and Travel Costs | \$ | - | \$ 7,608,174 | \$ 4,221,394 | \$ 2,351,950 | \$ 1,060,102 | \$ - | \$ 15,241,619 |
| Required 3rd Party Software | \$ | - | \$ 2,592,546 | \$ - | \$ - | \$ - | \$ - | \$ 2,592,546 |
| RCM Bolt On Costs | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| UVMHN Internal Staffing | \$ | - | \$ 4,641,375 | \$ 3,800,834 | \$ 2,767,777 | \$ 590,655 | \$ - | \$ 11,800,641 |
| External Staffing | \$ | - | \$ 11,456,900 | \$ 11,708,700 | \$ 10,229,375 | \$ 2,990,125 | \$ - | \$ 36,385,100 |
| Epic Related Technology Costs (Hardware, | \$ | - | \$ 4,196,259 | \$ 3,925,000 | \$ 2,942,500 | \$ 83,333 | \$ - | \$ 11,147,093 |
| Network Related Technology Costs | \$ | - | \$ 3,516,900 | \$ 836,756 | \$ 805,390 | \$ - | \$ - | \$ 5,159,047 |
| Facilities, Communication and Travel | \$ | - | \$ 1,073,055 | \$ 115,480 | \$ - | \$ - | \$ - | \$ 1,188,535 |
| Pre-Implementation - External Staffing | \$ | 1,458,180 | | | | | | \$ 1,458,180 |
| | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Total Capital Costs | \$ | 1,458,180 | \$ 39,075,835 | \$ 28,905,530 | \$ 25,158,799 | \$ 4,724,216 | \$ - | \$ 99,322,561 |
| Contingency 10% | \$ | 145,818 | \$ 3,907,584 | \$ 2,890,553 | \$ 2,515,880 | \$ 472,422 | \$ - | \$ 9,932,256 |
| Grand Total Capital Costs | \$ | 1,603,998 | \$ 42,983,419 | \$ 31,796,083 | \$ 27,674,679 | \$ 5,196,637 | \$ | \$ 109,254,817 |
| Epic Software Costs | \$ | - | \$ - | \$ 685,098 | \$ 1,630,533 | \$ 2,662,005 | \$ 3,015,509 | \$ 7,993,145 |
| Required 3rd Party Software | \$ | - | \$ - | \$ 348,007 | \$ 718,451 | \$ 741,673 | \$ 765,709 | \$ 2,573,839 |
| RCM Bolt On Costs | , | - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| UVMHN Internal Staffing | \$ | - | \$ 924,502 | \$ 3,344,949 | \$ 5,800,043 | \$ 8,507,258 | \$ 7,719,765 | \$ 26,296,516 |
| External Staffing | \$ | - | \$ 377,700 | \$ 1,101,625 | \$ 818,350 | \$ 535,075 | \$ - | \$ 2,832,750 |
| Epic Related Technology Costs (Hardware, | \$ | - | \$ 1,386,000 | \$ 1,454,000 | \$ 1,472,900 | \$ 1,492,745 | \$ 1,513,582 | \$ 7,319,227 |
| Network Related Technology Costs | \$ | - | \$ 5,652,060 | \$ 5,449,186 | \$ 4,976,629 | \$ 5,513,847 | \$ 5,770,810 | \$ 27,362,533 |
| Facilities, Communication and Travel | \$ | - | \$ 265,938 | \$ 667,704 | \$ 610,692 | \$ 564,358 | \$ - | \$ 2,108,691 |
| UVMHN Staffing Offsets | \$ | - | \$ (2,943,311) | \$ (3,146,513) | \$ (5,653,331) | \$ (8,349,263) | \$ (9,986,680) | \$ (30,079,099) |
| UVMHN Legacy System Offsets | \$ | - | \$ - | \$ - | \$ (1,956,071) | \$ (3,825,902) | \$ (5,890,410) | \$ (11,672,383) |
| | \$ | - | \$ - | \$ - | \$ - | \$ - | \$ - | \$ - |
| Total OpEx | \$ | - | \$ 5,662,888 | \$ 9,904,056 | \$ 8,418,195 | \$ 7,841,795 | \$ 2,908,285 | \$ 34,735,219 |
| Contingency 10% | \$ | - | \$ 860,619.91 | \$ 1,305,056.85 | \$ 1,602,759.72 | \$ 2,001,696.12 | \$ 1,878,537.50 | \$ 7,648,670.10 |
| Grand Total OpEx | \$ | - | \$ 6,523,508 | \$ 11,209,112 | \$ 10,020,955 | \$ 9,843,491 | \$ 4,786,822 | \$ 42,383,889 |
| Total Project Cost | \$ | 1,603,998 | \$ 49,506,927 | \$ 43,005,195 | \$ 37,695,634 | \$ 15,040,128 | \$ 4,786,822 | \$ 151,638,705 |

The capital costs of the Project include the following:

- \$14.3 million of Epic software costs. This includes one-time licensing fees for the Epic software
- \$15.2 million of Epic implementation and travel costs, including covers costs (fees and travel expenses) associated with Epic's implementation services, resource support with the implementation of new modules, data conversion into Epic, as well as assistance at initial go-live events.
- \$2.6 million of required third-party software for the Caché operating environment (database license).
- \$11.8 million for UVM Health Network internal staffing, including employees who will serve as project managers, team leads, and analysts for the Project. Only incremental staffing required by the project is included (*i.e.*, current PRISM resources at the UVM Medical Center are not included).
- \$36.4 million for external staffing. That includes third-party employees who will serve as project managers, team leads, and analysts for the project. Costs estimates include their fees and expenses.
- \$16.3 million of Epic and UVM Health Network-related technology costs. This includes network and infrastructure upgrades, new interfaces, reporting infrastructure upgrades and additional hardware required by the project.

- \$1.2 million of facilities, training and communication, and travel. It includes leased space costs for housing IS staff and training sessions, costs associated with stakeholder engagement and MyChart design, and promotion to patients.
- \$1.5 million of external staffing for pre-implementation work, including third-party employees who will serve as project managers and analysts during that phase.
- 10% contingency of \$9.9 million.

The operating expenses in the TCO include the following:

- \$8.0 million of Epic software costs, including the ongoing annual maintenance costs of Epic software.
- \$2.6 million of required third-party software for the ongoing maintenance of the Caché operating environment.
- \$26.3 million for UVM Health Network internal staffing, including costs for internal training resources during implementation and long-term staff to support the system. These expenses would be offset by \$30.1 million in savings relating to employees no longer needed to support legacy systems.⁹
- \$2.8 million for external staffing, including third-party employees who will design training materials and train end users.
- \$34.7 million of Epic and UVM Health Network technology costs, including the long-term maintenance costs of the technology.
- \$2.1 million of facilities, training and communications, and travel. It includes costs for sending UVM Health Network employees to Epic for training, training hours for clinical end users, and ongoing maintenance costs for training facilities.
- -(\$11.7 million) of offsets for legacy systems that will be replaced by Epic products.
- 10% contingency of \$7.6 million.

The TCO analysis does not include the non-cash expenses of the Project: capitalized interest of \$3.1 million and depreciation expenses during the implementation period of \$95.2 million. (However, the capitalized interest is included in the total \$112.4 million capital cost of the Project for purposes of the CON review.) Depreciation expenses will be accounted for by the UVM Medical Center as the asset owner. Both capitalized interest and depreciation were considered in the "Financial Feasibility" analysis of this Project, discussed below.

As noted earlier, Cumberland Consulting has provided its expert opinion that the TCO is accurate and complete and includes all of the cash expenses associated with this Project (see Exhibit A).

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⁹ For purposes of the TCO, we assumed that all UVM Health Network positions currently dedicated to legacy systems that are being replaced will be eliminated (approximately 85 positions across the Network). Over the same timeframe, 63 new positions will be created to support the new Epic systems. The overall loss of FTEs is estimated at 22 positions across the Network over the 40-month implementation period. We assume that most or all current employees would move into the new Epic-related positions, and that the remaining changes would be managed through normal attrition rates over the implementation period.

Allocation of Project Costs

As indicated in the Overview section of this Application, the Project's capital expenditures are to be paid by the Applicant, the UVM Medical Center, which will own the capital assets. The Project's operating expenses, apart from depreciation, are to be allocated proportionately to participating Network hospitals annually, with fees based on patient volumes (which is how Epic currently charges fees to the UVM Medical Center). As the owner of the Project's capital assets, the UVM Medical Center will account for all of the Project's depreciation expenses.

The table below summarizes the allocation of Project costs:

| 6-Year Summary of Epic Costs & Funds Flow | | | | | | | | | | | |
|---|--|--|---------------|---------------|-------------|--|--|--|--|--|--|
| | Total University of Vermont Health Network (UVMHN) | NY Elizabethtown Community Hospital (ECH) | | | | | | | | | |
| Total Capital Costs ¹ | \$109,254,817 | \$109,254,817 | \$0 | \$0 | \$0 | | | | | | |
| Total Operating Costs ² | \$84,135,371 | \$84,135,371 | \$0 | \$0 | \$0 | | | | | | |
| Subscription Fees ³ | \$0 | (\$28,160,039) | \$9,633,978 | \$16,817,371 | \$1,708,690 | | | | | | |
| Total System & Staffing Offsets ⁴ | (\$41,751,484) | (\$27,199,872) | (\$4,370,523) | (\$9,293,353) | (\$887,736) | | | | | | |
| Total Net Capital & Operating Cost of Epic Implementation | \$151,638,704 | \$138,030,277 | \$5,263,455 | \$7,524,018 | \$820,954 | | | | | | |
| | : UVMMC as the licensee ha UVMMC as the Epic license | • | ting costs | | | | | | | | |

- 3 The UVMHN hospitals reimburse UVMMC for their share of the operating costs
- 4 Staffing & system offset savings generated from Epic implementation

Project Alternatives

While the costs of the Project are substantial, after rigorous review and analysis, the Applicant has concluded that maintaining the current patchwork of IT systems is unacceptable and imprudent, and that the Project is the best approach to addressing the challenges it presents to our patients and providers.

- Patients will find it easier to navigate the health care system, because there will be fewer forms and provider questions.
- We will be able to provide a better, safer experience for our patients as they move through the network.
- Physicians and staff across the network will have easier access to patient records and clinical and business tools.
- It is expensive and wasteful to manage, update and maintain the existing systems. The UVM Health Network estimates that updating, maintaining and replacing the existing systems across the UVM Health Network over a similar period of time could cost up to

\$200 million, without any of the benefits to our patients and providers of moving to a unified EHR.

- It is unsustainable to manage so many systems, some of which are outdated and others of which are no longer being supported, or at risk of not being supported into the future.
- It is no longer industry standard to use multiple health IT platforms across networks that include hospitals, physician offices, and clinics in many different locations.
- It is also becoming increasingly challenging to meet regulatory reporting standards, which we expect will continue to expand under programs like MACRA/MIPs (the Medicare Access & CHIP Reauthorization Act/Merit-based Incentive Payment System) or the proposed All-Payer Model.

For these reasons, we believe that any alternative to this Project for replacing existing systems would be more costly, wasteful and imprudent.

Project Financing and Assumptions

The Project will be funded internally with existing operating capital. Accordingly, successful implementation of the Project will not require any borrowing or any rate increases linked to Project.

However, to offset the substantial costs of this Project, especially the depreciation costs that will be expensed over only five years, the UVM Health Network will implement approximately \$104 million in annual budget adjustments over the next six years (\$75 million at the UVM Medical Center, \$9 million at CVMC and \$20 million at the Network's New York hospitals). Adjustments include substantial expense reductions, including reductions in the historical rate of FTE growth.

These adjustments, taken together, will have the effect of maintaining the operating margins of the UVM Medical Center and the UVM Health Network within the benchmarks for A-rated health systems, and are discussed further below.

Financial Feasibility

The proposed spending is included in the UVM Health Network's long-term financial framework. That model, reviewed and updated periodically by the UVM Health Network and our Board of Trustees, allows us to plan for needed capital investments over time within the financial parameters established by the Green Mountain Care Board, which focus on making health care more affordable, while providing us with tools to manage how and when capital spending occurs. The framework's premise is that the UVM Health Network should meet national financial benchmarks that support our current A rating on the bond market within the parameters established by the GMCB. Using those benchmarks, we can plan our revenue and spending profile over a period of several years to determine how much capital is available.

Our financial framework assumes an operating margin performance of 3.5% across the Network. Should we fail to meet that target, we will need to revisit the total capital for all projects in the five-year plan and either reduce it, reprioritize projects, or delay projects to make certain our operating performance can support the capital spending while maintaining A-rating performance standards.

Consistent with this approach, we have developed detailed financial projections for the years 2017 – 2025 to determine the financial impact of the Project on the UVM Health Network, incorporating the cash expenses included in the TCO, the other non-cash expenses associated with the Project, and the approximately \$104 million in budget adjustments mentioned in the preceding section. The detailed projections for the UVM Health Network, the UVM Medical Center and CVMC are included in Exhibit C, together with a summary of the assumptions on which the forecasts are based. The following table summarizes the projections:

| | 0 | Projection Years | | | | | | | | | | | |
|--------------------------------------|-------------|------------------|-----------|-----------|---------------------|-----------|-----------|-----------|-----------|-----------|--|--|--|
| University of Vermont Health Network | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | | | |
| (UVMHN = UVMMC + CVMC + CPI) | | | | | | | | | | | | | |
| Income Statement | | | | | | | | | | | | | |
| Net Patient Revenue | 1,639,830 | 1,712,353 | 1,771,426 | 1,832,565 | 1,895,763 | 1,961,208 | 2,028,933 | 2,098,996 | 2,171,455 | 2,246,480 | | | |
| Annual Net Patient Revenue Growth | | 4.4% | 3.4% | 3.5% | 3.4% | 3.5% | 3.5% | 3.5% | 3.5% | 3.59 | | | |
| Other Operating Revenue | 161,179 | 122,858 | 131,645 | 140,588 | 144,690 | 148,960 | 153,407 | 158,039 | 162,863 | 167,888 | | | |
| Total Operating Revenue | 1,801,009 | 1,835,211 | 1,903,071 | 1,973,153 | 2,040,453 2,110,168 | | 2,182,340 | 2,257,035 | 2,334,318 | 2,414,368 | | | |
| Operating Expenses | | | | | | | | | | | | | |
| Salaries and Fringe Benefits | 1,060,706 | 1,094,274 | 1,133,463 | 1,174,472 | 1,217,003 | 1,268,912 | 1,322,911 | 1,378,799 | 1,437,452 | 1,498,538 | | | |
| Depreciation & Amortization | 83,134 | 83,634 | 104,069 | 115,584 | 128,129 | 129,794 | 137,446 | 142,233 | 137,111 | 126,110 | | | |
| Interest | 23,117 | 19,153 | 23,092 | 22,200 | 21,231 | 20,216 | 19,342 | 19,191 | 18,326 | 17,667 | | | |
| All Other Expenses | 563,457 | 587,561 | 597,745 | 605,512 | 605,093 | 616,575 | 625,081 | 636,950 | 661,074 | 686,499 | | | |
| Total Operating Expenses | 1,730,414 | 1,784,622 | 1,858,369 | 1,917,768 | 1,971,456 | 2,035,498 | 2,104,780 | 2,177,173 | 2,253,963 | 2,328,814 | | | |
| Operating Income | 70,595 | 50,589 | 44,702 | 55,385 | 68,997 | 74,670 | 77,560 | 79,862 | 80,355 | 85,554 | | | |
| Operating Margin | 3.9% | 2.8% | 2.3% | 2.8% | 3.4% | 3.5% | 3.6% | 3.5% | 3.4% | 3.5% | | | |
| Net Nonoperating Revenue | 6,258 | 17,555 | 22,972 | 22,526 | 24,353 | 27,315 | 30,497 | 34,006 | 37,576 | 41,099 | | | |
| Excess of Revenue over Expenses | 76,853 | 68,144 | 67,674 | 77,911 | 93,350 | 101,985 | 108,057 | 113,868 | 117,931 | 126,653 | | | |
| Relevant Metrics & Stats | | | | | | | | | | | | | |
| FTEs - MD and Staff | 10,773 | 10,989 | 11.054 | 11.121 | 11.189 | 11.304 | 11,419 | 11.534 | 11,652 | 11,771 | | | |
| Annual FTE Growth | 10,110 | 2.0% | 0.6% | 0.6% | 0.6% | 1.0% | 1.0% | 1.0% | 1.0% | 1.09 | | | |
| Operating Margin | 3.9% | 2.8% | 2.3% | 2.8% | 3.4% | 3.5% | 3.6% | 3.5% | 3.4% | 3.59 | | | |
| Operating EBIDA Margin | 9.8% | 8.4% | 9.0% | 9.8% | 10.7% | 10.6% | 10.7% | 10.7% | 10.1% | 9.59 | | | |
| Days Cash on Hand | 156 | 170 | 159 | 159 | 175 | 189 | 205 | 220 | 233 | 244 | | | |
| Debt to Capitalization | 33.1% | 38.2% | 36.2% | 33.3% | 30.5% | 27.7% | 25.0% | 22.5% | 20.2% | 18.29 | | | |
| Average Age of Plant | 9.71 | 10.65 | 9.56 | 961 | 9.67 | 10.54 | 10.96 | 11.59 | 13.02 | 15.16 | | | |

The projections shown in these tables demonstrate that both the UVM Medical Center and the UVM Health Network will be able to maintain operating margins within the benchmarks for Arated health systems during the forecast period.

As noted earlier, Ponder & Co., the UVM Health Network's independent financial adviser, has been engaged to review these projections and to provide its independent opinion as to the Project's financial feasibility and its impact on the Network's bond rating.

We will evaluate the feasibility and affordability of deploying the unified Epic system to Alice Hyde and to new partners as they join the UVM Health Network. Our ability to move forward with any such expansion depends both on affordability and obtaining any necessary regulatory approvals.

Financial Safeguards

All major projects come with some level of risk, but the Applicant recognizes that the Project's size and scope are of such a large scale that risk management and mitigation have been necessary components of our planning process. While there are many examples of successful EHR implementation projects – including the Epic implementation undertaken by the UVM Medical Center almost ten years ago – other major projects have made the news because they were not so successful. Those problems appear to have been caused either by incomplete planning (often without the assistance of experienced consultants), or not using experienced teams to manage the

projects during implementation to make sure they stayed within their planned scope, or some combination of those factors.

Both the planning and the implementation processes for this Project have recognized those risks and included numerous tactics to mitigate or eliminate them. Those include:

- Using Cumberland Consulting, a nationally-recognized and experienced consulting firm, in developing a TCO so as to ensure a full understanding of the total costs of the Project for a period of time beyond just the implementation period. This includes adequate contingency funds. Both the capital and operating expenses in the TCO include 10% contingencies for unexpected changes.
- Using an RFP process to contract with an experienced project management company (Cumberland Consulting, again) to partner with the UVM Health Network in implementing the Project. Cumberland Consulting has substantial experience in managing successful large-scale Epic implementation projects.
- Developing an implementation process that will fully engage the providers who will be affected by the Project, and will ensure that all users receive the training they need to successfully manage the transition from one system to another. This includes backfilling staffing needs while internal staff are trained and begin using the new systems.
- Using a phased implementation schedule that allows regular assessments as to progress against anticipated costs. Detailed progress and financial information will also be included in the regular reports to the GMCB that will be required under a CON, and we anticipate updating the GMCB in person at regularly-scheduled GMCB meetings.
- Incorporating a sensitivity analysis into the financial feasibility assessment that modeled the impact of changes in underlying assumptions, including potential disruptions to revenues or expenses.
- Establishing a governance structure that will rigorously oversee and control the scope of the Project. "Project creep" is one of the most common reasons for budget overruns on HIT projects. The governance structure that will be put in place, described in detail in Section D ("Project Description"), is designed to make sure that the scope of the project remains within the planning parameters.

We believe that these safeguards will minimize the risks associated with implementing the Project within the timeframes and costs outlined in this Application.

SECTION II CONSISTENCY WITH THE HRAP CON STANDARDS

The current version of the Health Resource Allocation Plan (HRAP) provides that in "order to have a higher functioning, more integrated care delivery system, health care providers must have greater and more streamlined access to data that *can only be provided through the expansion of integrated health information technology.*" ¹⁰

This Project's goal – the creation of a unified electronic health record system across the UVM Health Network – is in furtherance of the HRAP's recognition that expansion of *integrated* health information technology is needed for greater access to data and a higher functioning care delivery system. Indeed, the creation of a common medical record platform among the UVM Health Network hospitals will ensure that patients who receive their care from multiple UVM Health Network providers, often on an urgent basis, can move easily and smoothly across the system. A common medical record will also ensure that caregivers have the information they need at their fingertips to help patients make the best and most timely care decisions.

Unlike prior versions of the HRAP, the 2009 edition does not include a separate chapter on health information technology and does not include any HRAP CON Standards that are specifically applicable to HIT projects. Instead, the HRAP provides as follows:

The 2005 HRAP contained an entire chapter on health information technology. We did not include a separate chapter on HIT in the 2009 HRAP. We made this decision for several reasons, most notably because the Vermont Health Information Technology Leaders (VITL) have done much work in this area and it was felt that the HRAP would simply be duplicative. However, it is important to recognize that virtually all health care reform measures, including those focused on quality improvement and those focused on cost containment, have a vital HIT component. Vermont's Health Information Technology Plan recognizes this and is a good resource for those interested in focusing more specifically on HIT.¹¹

The project's compliance with Vermont's Health Information Technology Plan is a statutory criterion that is addressed below in Section III of the application. The only applicable HRAP CON Standard relates to whether the project's cost is included in the hospital budget submission to the Green Mountain Care Board. This HRAP standard is **bolded** below followed by an explanation as to how the Project is consistent with the standard.

¹⁰ State of Vermont Health Resource Allocation Plan, July 1, 2009, p. 13 (emphasis added).

¹¹ *Id.* at p. 13.

CON STANDARD 3.4: Applicants subject to budget review shall demonstrate that a proposed project has been included in hospital budget submissions or explain why inclusion was not feasible.

The cost for this Project was included in the UVM Medical Center's capital budget submission for FY 2016, with an anticipated capital cost of \$111M. In the UVM Medical Center's FY 2017 capital budget submission, the cost for the Project was updated to reflect the final capital cost after completion of the Total Cost of Ownership analysis (\$108.8M).

SECTION III CONSISTENCY WITH 18 V.S.A. § 9437

This Application demonstrates, and the GMCB should find, that the Project complies and is fully consistent with the statutory criteria set forth in 18 V.S.A. Section 9437.

The statutory language contained in Section 9437 is **bolded** below followed by the UVM Health Network's explanation of how the Project is consistent with each requirement.

1. The Application is consistent with the HRAP.

As indicated in Section II, the Project is consistent with the one applicable HRAP CON standard.

2. The cost of the project is reasonable, because:

A. the applicant's financial condition will sustain any financial burden likely to result from completion of the project;

The UVM Medical Center will be able to sustain the financial burdens of this Project and expects to complete the Project from available operating capital without additional borrowing.

Project expenses are included in the UVM Health Network's long-term financial framework. That model, reviewed and updated regularly by the UVM Health Network and our Board of Trustees, allows us to plan for needed capital investments over time within the financial parameters established by the Green Mountain Care Board while providing us with tools to manage how and when capital spending occurs. The framework's premise is that the UVM Health Network should meet national financial benchmarks that support our current A rating on the bond market within the parameters established by the GMCB. Using those benchmarks, we can plan our revenue and spending profile over a period of several years to determine how much capital is available.

Following this approach, the UVM Health Network developed detailed projections to determine the financial impact of the Project, incorporating the cash expenses included in the TCO and other non-cash expenses associated with the Project. These projections are summarized in the table on p. 19 of the application.

The projections reflect a decrease in net income for a three year period (2020-2022) primarily due to the substantial increase in non-cash depreciation during this period as result of the highly-accelerated depreciation schedule on IT assets. However, the UVM Medical Center's EBIDA (Earnings Before Interest, Depreciation and Amortization) margin and available cash remain strong throughout this period.

Ponder & Co., the UVM Health Network's independent financial adviser, reviewed these projections and based upon them, has concluded that the Project is financially feasible and within the Network's debt capacity without jeopardizing the Network's bond rating.

- B. the project will not result in an undue increase in the costs of medical care. In making findings under this subdivision, the commissioner shall consider and weigh relevant factors, including:
 - i. the financial implications of the project on hospitals and other clinical settings, including the impact on their services, expenditures, and charges;
 - ii. whether the impact on services, expenditures, and charges is outweighed by the benefit of the project to the public; and

The Project will not result in any increase in the costs of medical care. The UVM Medical Center expects to fund the Project with available operating capital without additional borrowing or rate increases linked to the Project.

C. less expensive alternatives do not exist, would be unsatisfactory, or are not feasible or appropriate;

Reasonable alternatives to the Project are not appropriate or feasible. The only alternative would be to replace all of the existing systems that require replacement across the UVM Health Network, at a higher cost (potentially up to \$200 million) and without the clinical efficiencies that are discussed throughout this application. That would not be feasible or appropriate, and would not create the necessary improvements to patient care that are discussed in response to CON Statutory Criterion 4, below. Furthermore, simply replacing existing systems across the Network that are in need of replacement would fail to achieve the integration mandated under the current HRAP CON standards.

3. There is an identifiable, existing, or reasonably anticipated need for the proposed project which is appropriate for the applicant to provide;

The *need* for this Project, as discussed above, is based on the fact that many of the UVM Health Network's existing clinical and administrative IT systems require replacement. CVMC's current inpatient system, Meditech, is no longer meeting its needs and will require a significant investment in the near future to move from their legacy platform (Magic) to either their 6.15 platform, or implement an EHR with another vendor to eliminate the patchwork of current EHRs across its clinical locations. The UVM Medical Center's revenue cycle system, a GE Healthcare product, is over 21 years old and needs to be replaced. CVPH uses three different outpatient

systems, paper medical records in some of its clinics, and its inpatient system, Soarian, was recently acquired by a competing electronic health record vendor, Cerner, raising questions about Soarian's long-term viability as a standalone system. None of these systems adequately communicates with each other, as described in more detail in response to CON Statutory Criterion 4 below.

To meet the needs of the UVM Health Network for up-to-date HIT systems, the current patchwork of systems could be maintained and updated, for a cost of up to \$200 million, or the UVM Health Network could invest in a consolidated HIT system. Transitioning to a consolidated HIT system across the UVM Health Network can be accomplished at a lower cost and with the clinical efficiencies described throughout this application.

Once the UVM Health Network made the decision to follow the lead of its peers and transition to a single HIT system, it surveyed the marketplace to determine whether extending the UVM Medical Center's Epic system across the network would be the best option, or whether another vendor's system would be more advantageous. Epic was the clear winner.

Epic has a program called Connect that is specifically geared towards the creation of a consolidated HIT system among distinct health care providers. The program permits a health care provider that licenses Epic (the "host provider") to extend full access to its Epic system to other hospitals, clinics and affiliated providers. By extending Epic, the host provider (the UVM Medical Center, in our case) and partnering providers create a single health record for their patients, improving the patient experience and helping to promote collaboration, improve patient safety, reduce collective operational costs, improve analytics, and support seamless ambulatory and inpatient care across associated provider groups.

Epic supports the Connect program with extensive documentation, established training and support strategies, and forums that allow customers to exchange best practices. In addition to the creation of a consolidated infrastructure for an improved patient experience and more seamless patient care and referral management, by creating a unified EHR, the Connect program also creates opportunities for participating providers to achieve operational savings by sharing data centers, data storage (*i.e.*, physical flash arrays, servers, etc.), IT infrastructure, and disaster recovery systems.

Nearly 70% of Epic customers have adopted the Connect program to extend their Epic software to other hospitals and clinics. MidMichigan Health, which is part of the University of Michigan Health System, is one such example. MidMichigan Health decided to extend Epic across all of its hospitals, doctors' offices and outpatient care facilities for the creation of a single, integrated EHR as part of its One Person, One Record project. In announcing the initiative, MidMichigan Health's Chief Information Officer stated as follows:

Our current state of multiple vendor systems requires us to maintain a large number of custom interfaces. This has simply become unsustainable, both in terms of the cost to maintain those systems and the potential risk and confusion that it introduces. ¹²

Like MidMichigan, the UVM Health Network is currently struggling to maintain a large number of expensive interfaces to achieve some form of connectivity among its many different software systems. The UVM Medical Center alone has created dozens of different interfaces so that its software systems can "talk to each other" as necessary for coordinated care.

The large percentage of Epic customers that have decided to extend their Epic system through the Connect program is not surprising given Epic's industry-leading customer satisfaction scores and success implementing projects on budget. Epic has earned the number one ranking for its EHR software suite for six consecutive years in the "Best in KLAS" award. In KLAS's most recent rankings for 2016, Epic's software received the highest overall ranking for customer satisfaction when compared to all other electronic medical records systems. The individual Epic modules that are part of Epic's software package (inpatient, outpatient and hospital billing) also had higher scores than competitors' products. Finally, KLAS concluded that more hospitals are licensing Epic than competing vendors' products, as hospitals migrate from other electronic medical records systems to Epic.

Epic's own data indicates that 87% of Epic implementation projects are completed on or under their budget, with the majority of Epic implementations using only 87% of their original implementation budget. Of the minority of projects that spent more than their implementation budget, none exceeded their budget by more than 25%. The most common reasons for organizations exceeding their implementation budget were an increase to project scope, a change to the project's implementation timeline, and project team staffing deficiencies.¹⁴

As discussed above, this Project is needed to replace existing HIT systems that have reached the end of their useful lifespans. The Project's establishment of a unified EHR will integrate clinical, registration, billing, scheduling, patient portal and insurance information into one system that will improve the patient experience of care while giving patients, their families and their providers access to consistent, timely and accurate information regardless of where their care is delivered. Given the UVM Medical Center's proven track record of completing an inpatient and ambulatory Epic implementation well within the CON-approved budget and implementation schedule, and Epic's place as an industry-leader with a well-established program for extending its software across multiple providers, the Applicant believes that Epic is the right choice to serve as the vendor for the UVM Health Network's unified EHR system.

¹² More information is available at: http://hitconsultant.net/2016/01/28/midmichigan-health-epic-integrated-ehr/.

¹³ KLAS's annual "Best in KLAS: Software & Services Report," where it ranks the leading vendors, is a well-respected source for information about the highest-performing medical software products. The annual KLAS report is the culmination of a year's worth of analyses by KLAS and interviews with thousands of health care providers.

¹⁴ See "Staying On Budget – Epic's Track Record," Epic Systems Corporation (2016), attached as Exhibit D.

¹⁵ In addition to serving as a platform for UVM Health Network's establishment of a unified EHR, the Epic Connect program can also be used to bring independent physician practices, hospitals, federally-qualified health centers and

Changing regulatory standards also support our need for the Project. Those standards took on new meaning in 2009 with the advent of the "meaningful use" program under the federal HITECH law, and continue to evolve at an ever-increasing pace (much as technology does). The newest program changes are coming as a result of MACRA, the law that replaced the old Sustainable Growth Rate with a newer, unified set of reports and measures that will drive how physicians get paid. A unified EHR across the UVM Health Network will support our ability to comply with these regulatory requirements.



The *need* for this Project is also demonstrated throughout this Application. It is specifically addressed in Sections I(A), I(B), and I(D), which are incorporated herein by reference.

4. The project will improve the quality of health care in the state or provide greater access to health care for Vermont's residents, or both;

The Project will improve the quality of health care in numerous ways, including providing greater coordination of care for patients and improved access to medical information for patients' clinicians. This will allow patients to move seamlessly across the UVM Health Network for better care transition management, thereby improving the experience of care and general patient satisfaction. Specific examples of quality improvements at individual UVM Health Network hospitals are described below.

Central Vermont Medical Center

• CVMC uses a variety of different systems that require extensive interfacing to communicate with each other, making it difficult for providers to gather all of the

other providers onto UVM Heath Network's unified EHR, at cost, through a license agreement. This would create even greater clinical efficiencies as independent practices would be part of UVM Health Network's shared medical records system (*i.e.*, one medical record for all patients.). Some independent providers have already expressed interest in licensing UVM Health Network's unified EHR and this is something that we will explore further if this application is approved.

- necessary clinical information and making it burdensome for patients to access copies of their medical records. CVMC uses Meditech for its inpatient clinical system and inpatient financial system, eClinical Works for its ambulatory clinical system and ambulatory financial system, Point Click Care for its Nursing Home, Picis for its ED, Philips for its radiology images, and Merge for its cardiology images.
- Because CVMC has so many different clinical systems, providers often have to toggle and review records in 4 to 5 different systems to gather clinically-relevant information needed for patient care. This can lead to problems and difficulties in urgent, high-risk situations as well as in routine care. For example, when a trauma patient presents to CVMC's ED, a critical question caregivers face is determining whether the patient is on blood thinner medication. This is because even if the patient presents without outward signs of bleeding, a trauma injury to the head, for example, may result in internal bleeding. Patients who are on blood thinner medication are more susceptible to bleeding and would likely need a CT scan to rule out potentially life-threatening internal bleeding. Lacking an integrated electronic medical record means that, in urgent situations, CVMC's ED providers are searching through multiple EHR systems to gather the information they need. This would not be an issue with a single, unified EHR across the UVM Health Network.
- Because CVMC has different clinical systems for inpatient care and ambulatory care, CVMC has two different patient portals for patients to access when reviewing their medical information. This can lead to confusion and potential errors. For example, patients may experience two different medication lists depending on when the list was last updated and in which EHR system. This discrepancy could lead to medication errors which have been shown to increase utilization and preventable hospitalizations. In addition, multiple EHR systems and portals limit CVMC's ability to allow for self-service appointments and other functions that increase access and engagement. A unified EHR would fix this.
- When a patient presents for care to CVMC's ED, has tests ordered, and is subsequently admitted as an inpatient, CVMC inpatient nursing staff and hospitalists struggle to reconcile all of the clinical information across 4-5 systems. Orders and treatments could be stored in the ED system (Picis) or the inpatient system (Meditech), and if providers require medical information from the patient's CVMC primary care physician, they must then look in CVMC's ambulatory clinical system (eClinical Works). Many of CVMC's patients also receive primary care from a large UVM Medical Center family practice in Berlin, and so if CVMC providers require medical information from the UVM Medical Center practice, they must then look through the UVM Medical Center's ambulatory clinical system (Epic). CVMC invests significant resources in manually reconciling the clinical information across these disparate systems, but even high-quality manual reconciliation across thousands of encounters can result in errors. All of these inefficiencies would be remedied with a unified EHR.For CVMC primary care clinics (eClinical Works) and the UVM Medical Center family practice clinic in Berlin (Epic), patients are referred locally to CVMC for the majority of their lab (Meditech), radiology (Philips), and cardiology testing (Merge), and to the UVM Medical Center for specialized testing that is not available at CVMC (Sunquest system for lab, Merge for cardiology, and GE for radiology). Primary care physicians require access to all of this information in order to manage their patients' care. Because of the difficulties of having these

systems communicate with each other, test results do not flow from some of the different clinical systems into the EHR used by the primary care physicians (eClinical Works and Epic) while others require extensive and ongoing interfacing. This means that the primary care practices are toggling between the various systems to track down test results, or receiving paper faxes of test results, and then scanning PDFs of the test results into their EHR systems. The scanned PDF test results, because they are not digital, are not as easy to view in the EHR. It is impossible to "trend" lab tests that require an analysis of how they change over time or perform analytics on a population basis. The other option is for staff at the primary care practices to manually enter in test results into the EHR systems, but this can lend itself to human error and misunderstanding of where the tests were performed and which specialists reviewed the tests. All of this is inefficient and expensive, with staff time being spent searching through a variety of clinical systems, reviewing faxes, scanning PDFs, manually entering in data, and searching for "buried" PDFs that are embedded within the EHR. This Project will remedy these inefficiencies.

University of Vermont Medical Center

- UVM Medical Center uses Epic for its inpatient and outpatient clinical system, GE for its financial system (scheduling, registration and billing), Optum for its operating room ("OR") department, Sunquest for the lab, Merge for cardiology, CyberRen for dialysis, and GE for radiology. Not all of these systems talk to each other, and even when they do, technical problems often occur and any upgrades to any of the systems require extensive and costly testing and modifications to the interfaces to make sure essential data continues to flow between the different systems. For example, lab tests are ordered in Epic but they must make their way into the lab system for processing (Sunquest), and ensuring this compatibility requires the UVM Medical Center to have a technical IT team available 24 hours a day, 7 days a week to fix any problems that arise. With a unified EHR, the UVM Medical Center would not need to maintain expensive and complicated interfaces, as all data would be stored centrally and would not need to flow from one clinical system into another.
- UVM Medical Center's OR system (Optum) does not communicate with its inpatient and ambulatory system (Epic). This results in busy surgeons and support staff having to spend multiple hours per week synthesizing information between the two systems to review pre-operative and post-operative clinical information, and manually transfer necessary information between the two systems. The UVM Medical Center's patient registration system (GE) experienced major technical problems 19 times in 2014, 9 times in 2015 and is on a pace to have 12 outages in 2016. During these outages (which can last for hours), GE fails to transfer patient information to the other clinical systems, including the Epic EHR. When this failure occurs, Epic does not know that the patient exists, creating significant problems for coordinating the patient's care (*i.e.*, ordering tests, procedures, transferring the patient to different medical units, etc.). In fact, there were 20 "SAFE" events for 2014 and 2015 directly related to GE. SAFE events are how the UVM Medical Center tracks adverse patient outcomes or "near misses". The total to date through July 2016 is 8 events. The Project would remedy these problems.
- As the region's tertiary care provider, the UVM Medical Center receives patient transfers
 every single day from hospitals in the UVM Health Network. Many patients who are
 transferred to the UVM Medical Center are high-risk patients who arrive by ambulance

with paper copies of their medical records. In these instances, the paper medical records contain extremely important clinical information (current medications, problem lists, test results, etc.) that must be manually entered into the UVM Medical Center's clinical systems, creating opportunities for error. These patients are often transferred back to their local community hospital in the UVM Health Network once they receive the necessary tertiary intervention and stabilizing treatment, but in transferring the patients back, we encounter the same difficulties by having to provide paper copies of critical medical records to the receiving UVM Health Network hospital (medication changes, test results, discharge instructions, etc.).

• Clinical protocols at UVM Health Network hospitals are also different as a result of the different EHR systems used in each hospital. A unified EHR across the UVM Health Network will permit us to develop standardized clinical protocols for use at all UVM Health Network facilities, taking advantage of our shared knowledge and best practices developed over time. Finally, instead of having to ask patients the same questions they were asked by another UVM Health Network provider, when a patient is referred to a UVM Medical Center specialist, a unified EHR will allow providers to instantly see all of the patient's medical information from other UVM Health Network providers, avoiding the need for repetitive questioning about information already in the record (e.g., prescribed medications, allergies, medical history, etc.).

Champlain Valley Physicians Hospital

- CVPH uses Soarian as its inpatient clinical system and financial system; paper medical records and two different clinical systems in the ambulatory setting (GE and Medent); two different ambulatory financial systems (Soarian and Medent); ORSOS as its OR system; Sunquest as its lab system; Siemens as its radiology system; and McKesson as its cardiology system.
- CVPH's ED and inpatient Care providers do not have access to CVPH's ambulatory clinical systems. This results in them not knowing all the various diagnoses a patient may have, and more importantly the patient's up-to-date medication list, which is usually found in the patient's primary care office. To remedy this, CVPH employs pharmacists in its ED to help bridge the gap by calling patients' primary care offices and pharmacies, but this option is only available during regular office hours for the physician offices and pharmacies. At night, ED nurses do their best to obtain the necessary medication information directly from the patient, but patients may not remember all of their medications or have the capacity to provide this information. A unified EHR will remedy these problems.
- CVPH's OR system (ORSOS) does not communicate with its inpatient system (Soarian). Scheduling information is in one system and physician ordering is in another, and relevant clinical information may be in one system but not the other. This creates an opportunity for error, as providers may not readily access the information they need. For example, a patient may have surgery and then be transferred to the inpatient unit, but the inpatient staff may not have the full picture of the patient's surgical intervention without accessing the OR system.
- Finally, as described above, CVPH routinely coordinates care with the UVM Medical Center for tertiary and specialty services, but the lack of a unified EHR creates significant difficulties for referral management and continuity of care.

For all the reasons stated above, the Project will improve the quality of care for our patients.

5. The project will not have an undue adverse impact on any other existing services provided by the applicant;

The Project will not have a material impact on any other existing services offered by the UVM Health Network. All existing services will continue to be provided by the UVM Health Network.

6. The project will serve the public good;

As described throughout this Application, we believe there are significant benefits to patients and their providers that will flow from this Project. A unified EHR across the UVM Health Network will enhance our patients' experience of care and their ability to be active partners in their care processes. Patients and providers will have access to records across all settings of care within the Network. Patients will see enhanced communication and collaboration among their providers, and their care will benefit from better local and regional are coordination.

The Project also has benefits beyond the immediate care experience for patents and their providers. A unified EHR supports the goals of health care reform – improving the patient experience, improving the health of populations, and reducing health care costs – by facilitating the appropriate collection, analysis and use of care information.

For the foregoing reasons, the Applicant believes that the Project will serve the public good.

7. If the application is for the purchase or lease of new health care information technology, it conforms with the health information technology plan established under section 9351 of this title.

In recognition of the need to expand the use of integrated health information technology for the purpose of improving patient care, the Vermont legislature amended the Certificate of Need law to provide for expedited review of all CON applications for the purchase or lease of health information technology, with approval being granted if the applications are consistent with the Health Information Technology Plan (the "HIT Plan") and the Health Resources Allocation Plan. To effectuate this statutory amendment, Green Mountain Care Board Certificate of Need Rule 4.000 provides that all CON applications for the purchase or lease of information technology, regardless of cost, are eligible for expedited review. To

Established under 18 V.S.A. § 9351, the HIT Plan calls for the implementation of integrated health information infrastructure for the sharing of electronic health information among health care providers, patients and payers. The HIT Plan also serves as the framework for the GMCB's review of CON applications for health information technology. Among other things, the HIT Plan is intended to:

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¹⁶ 18 V.S.A. § 9440b

¹⁷ GMCB Rule 4.000, Section 4.304(1)(b)

Support the effective, efficient, statewide use of electronic health information in patient care, health care policymaking, clinical research, health care financing, and continuous quality improvements;

Educate the general public and health care professionals about the value of an electronic health infrastructure for improving patient care; and

Ensure the use of national standards for the development of an interoperable system, which shall include provisions relating to security, privacy, data content, structures and format, vocabulary, and transmission protocols.¹⁸

The GMCB is charged with reviewing and approving the HIT Plan, which is coordinated, administered and updated by the Secretary of Administration through the Department of Vermont Health Access. Revisions to the HIT Plan are currently being reviewed by the GMCB, in consultation with the Vermont Information Technology Leaders (VITL), but the proposed 2016 updates to the HIT Plan have not yet been approved by the GMCB. Accordingly, and consistent with the instructions we received from GMCB's General Counsel and Executive Director, in responding to this statutory criterion, our response is based on the current version of the HIT Plan, dated October 26, 2010.

By its terms, the HIT Plan seeks to transform the "health care delivery system into a comprehensively integrated, digitally powered, distributed learning network of health information to improve the quality, safety and connectedness of care." To accomplish this ambitious objective, the HIT Plan encourages the adoption of interoperable electronic health records by hospitals and providers, with connectivity to the Vermont Health Information Exchange network (the "VHIE").

The VHIE, operated by VITL, is a secure computer network that connects the electronic health information systems of different health care providers, enabling those providers to share clinical and demographic data of patients they have in common. The VHIE enables access to test results, radiology reports, patient demographics, and discharge summaries from most Vermont hospitals. Some patient medication histories are available in the VHIE, as well as clinical summaries from some primary care providers. Expanding the amount and scope of patient information available in the VHIE is central to the HIT Plan, and the mission of VITL itself.

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¹⁸ 18 V.S.A. § 9351(b)

¹⁹ "The Vermont Health Information Technology Plan," Version 4.6, dated October 26, 2010, p. 4.

Of particular significance, the HIT Plan identifies the following *Key State Goals*:

Encourage and enable the deployment of electronic health record systems within the state to increase the amount of available electronic health information. Provide the necessary support to enable proper use of this technology within practice settings.

<u>Encourage collaborations</u> among entities deploying EHRs to accelerate deployment and support progress towards meaningful use.

EHR and ancillary systems shall comply with standards that promote their ability to exchange data with other systems.

Enable consumers to take an active role in their health care by providing access to their electronic health information.

Encourage the development of patient portals and interoperable connectivity to Personal Health Records.

Successful, rapid deployment of EHR's in each Hospital Service Area will be based on collaborative planning among the Blueprint, the hospital, VITL and other resources in the state. Components of deployment will include: EHR Vendor Alignment.²⁰

(Emphasis added.)

The UVM Health Network's plan to establish a unified EHR system among its providers is consistent with all of these key goals from the HIT Plan. The UVM Health Network unified EHR system will be a collaboration among separate health care providers for the purpose of increasing the availability of electronic health information, promoting interoperability, and facilitating improved and greater exchange of information with the VHIE. Instead of patients having to access multiple patient portals (including two at CVMC) when they see different UVM Health Network providers, with limited information available in each portal, a unified EHR will allow for the creation of <u>one</u> patient portal, where patients can view their medical information, communicate with their providers, schedule appointments, and view and pay bills. Finally, consistent with the HIT Plan, the Project accomplishes vendor alignment by replacing over 20 different EHR software systems across the UVM Health Network with one system, Epic.

Having one EHR vendor for all of the UVM Health Network will enable improved communication among providers, as well as the VHIE and the New York State health information exchange, HIXNY. Act 128 of 2010 required all hospitals in Vermont to connect to

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 $^{^{20}}$ *Id.* at pp. 17 – 19.

the VHIE, and at a minimum, transmit patient demographic information and lab results.²¹ Through its Epic system, the UVM Medical Center went one step farther and became the first hospital in Vermont to transmit immunization records to the VHIE in February 2014.²²

Despite the UVM Medical Center's success in transmitting health information to the VHIE, the HIT Plan recognizes that interstate exchange of health information remains a problem. A large percentage of the UVM Medical Center's patients are New York residents who travel to Burlington for tertiary services, but the New York State health information exchange (HIXNY) and the VHIE do not connect with each other. Because of this problem, the HIT Plan notes that "meaningful exchange [of health information] between providers in the interim will go a long way towards meeting care needs." Having the New York State member hospitals of the UVM Health Network on the same medical record system as the UVM Medical Center will go a long way towards this "meaningful exchange," as the majority of the UVM Medical Center's New York patients are referred to it by the New York hospitals. In addition, the UVM Medical Center recently signed a Participation Agreement to join HIXNY, and it is in the process of setting up the secure connections to transmit and receive medical information from HIXNY for its New York patients. The Project's creation of a unified EHR with one vendor will improve our ability to exchange information with HIXNY.

Consolidation from many vendors to one (Epic) will also further the UVM Health Network's goal of maintaining national standards for privacy, security and transmission protocols. A major struggle for the Network has been to maintain a myriad of systems from vendors, which creates opportunities for security issues. Using one vendor whose product is fully-compliant with all federal and state security and safety standards will increase safeguards, and bring additional audit capabilities to the ones we use today to ensure that patient information remains secure.

Epic is also heavily invested in patient-centered research and the creation of a single record across the Network would facilitate identification of patients who are eligible for cutting-edge treatment protocols. Finally, a single, integrated EHR also would enhance the ability for the Network to maintain federal standards for billing and reporting on clinical trials.

For all the reasons describe above, the Project is in conformance with, and will help further, the objectives set forth in the HIT Plan.

²¹ *Id.* at p. 36.

²² Information on UVM Medical Center's submission of immunization reports to the Vermont Immunization Registry via the VHIE is available at: https://www.vitl.net/blogs/rgibson/fletcher-allen-becomes-first-hospital-report-immunizations-vhie.

²³ "The Vermont Health Information Technology Plan," Version 4.6, pp. 59 – 60.

²⁴ *Id.* at p. 60.

CONCLUSION

For the reasons set forth herein, the Applicant respectfully requests that this Application be reviewed on an expedited basis in accordance with 18 V.S.A. § 9440b and following review, that the Application be approved.

Dated at Burlington this 3rd day of January, 2017

APPLICANT:

THE UNIVERSITY OF VERMONT MEDICAL CENTER, INC.

By:

Spencer R. Knapp

Sr. Vice President & General Counsel

Som R. Kolos

INDEX OF EXHIBITS

Exhibit A: Cumberland Consulting letter dated December 16, 2016

Exhibit B: "Interoperability Exchange Statistics," Epic Systems Corp. (Nov. 2016)

Exhibit C: Financial projections 2017 – 2025 and summary of assumptions

Exhibit D: "Staying On Budget – Epic's Track Record," Epic Systems Corporation (2016)

EXHIBIT A



December 16, 2016

John R. Brumsted, MD
President & CEO
The University of Vermont Health Network
462 Shelburne Road
Burlington, VT 05401
John.Brumsted@uvmhealth.org

RE: University of Vermont Health Network Epic Implementation Total Cost of Ownership

Dear Dr. Brumsted,

The University of Vermont Health Network ("UVMHN") engaged Cumberland Consulting Group, LLC ("Cumberland") to develop the budget for an ancillary and revenue cycle Epic system implementation for UVM Medical Center ("UVMMC"), and subsequent roll-out and implementation of UVMMC's consolidated Epic HIT system across UVMHN ("The Project"). With a consolidated Epic system, the Project would enable the creation of a common electronic health record across UVMHN. The key output of Cumberland's engagement was the creation of a Total Cost of Ownership ("TCO") model for the Project. The TCO was developed following processes commonly followed in the healthcare information technology industry.

The TCO was reviewed on an iterative basis with UVMHN leadership and Epic in order to produce a cost estimate spanning a 6-year time period of implementation and maintenance of the system. This letter may be used by UVMHN in connection with an application for a Certificate of Need to be submitted to the Green Mountain Care Board, seeking approval of the proposed Project.

By way of background, Cumberland is one of the leading consulting firms in the healthcare information technology industry. We are a strategic business advisory, process improvement, information technology implementation and support services firm serving the payer, provider and life sciences industries. KLAS, an independent healthcare research and insights firm, rated Cumberland as the top performing targeted Epic implementation firm in its 2016 Epic Consulting Performance report. KLAS ratings are based on feedback from thousands of healthcare professionals about the performance of vendors in the healthcare information technology industry. A diverse group of professionals from clinical, financial, IT leadership and



senior executives respond to surveys and offer their time for in-depth interviews with the KLAS research team in order to determine these ratings.

Cumberland has substantial experience building Epic implementation TCO models and managing large-scale Epic implementation projects. Our implementations inform our TCO models because we are able to incorporate feedback from the many implementation projects that we have completed successfully. Our track-record of successful Epic implementations began in the mid-1990s when some of our senior executives began working with Epic. Cumberland has completed, or is currently involved in, 58 Epic implementation projects – roughly 20% of Epic's customer base.

I am a founding partner of Cumberland, the company's Chief Information Officer and a member of the Board of Directors. The company was founded in 2004. Prior to Cumberland, I was an executive with Ernst & Young's healthcare consulting practice in Chicago. I have 23 years of experience planning and managing complex system implementation projects focused primarily on revenue cycle and clinical systems for large healthcare providers. My experience spans the continuum of provider environments including employed ambulatory physician practices, large hospital systems, academic medical centers, post-acute, long-term care, behavioral, correctional and safety-net environments (FQHCs and RHCs). I believe I am qualified as an expert to represent Cumberland's opinions in this letter.

To develop the TCO, Cumberland worked with key leadership and subject matter experts from UVMHN and Epic to understand network requirements, develop the implementation strategy, determine the deployment approach and estimate costs for the implementation. The cost estimates were derived by analyzing UVMHN's current and future-state needs and incorporate costs from affected UVMHN departments including facilities, finance, human resources, information systems, technology infrastructure, clinical, legal, marketing, communications, operations and revenue cycle.

The final version of the TCO for the Project is attached to this letter as Attachment 1. Costs in the TCO are grouped into the following categories: Software, Vendor Implementation, Internal and External Staffing, Technology, Facilities/Communications/Travel/Other, and Staffing and Legacy System Offsets. Cumberland provided key insight into many of these areas based on our work with the TCO and our years of experience providing implementation planning and delivery services to similar clients.

The TCO includes considerable input from Epic. Over the course of our engagement, we have worked closely with Epic to develop the implementation timeline and sequence of deployment across UVMHN. Epic has provided input on software, support, third-party systems and implementation costs from Epic's implementation services team. Epic is the leading clinical and revenue cycle system with over 190 million patients having medical records on the Epic platform. Epic is ranked as the #1 Overall Software Suite by KLAS. Cumberland has no financial ties to Epic.

The TCO groups costs into capital and operating expense categories. It is a cash-flow model that includes capital purchases at specified times over the course of the project. Capitalization costs



follow generally accepted accounting principles ("GAAP") and include input from UVMHN auditors.

Based on our work over the course of this engagement, input from Epic, our experience developing similar models and our experience implementing Epic and other systems based on the TCO models we have developed for similar clients, it is Cumberland's opinion that the cost estimates in the TCO are reasonable and complete, and the estimates are consistent with other TCO cost estimates for projects that have been completed successfully; on-time and on-budget.

I would be pleased to answer any questions you have about the TCO and Cumberland's work. I am also looking forward to assisting the UVMHN team with the Certificate of Need review process, and responding to any questions from the Green Mountain Care Board regarding the Project and the TCO.

Very truly yours,

Matthew T. Abrams

Partner & Chief Information Officer

Attachment 1 UVMHN Epic Connect TCO - Final

| Cost Estimate | | FY17 | FY18 | | FY19 | FY20 | FY21 | | FY22 | TOTAL |
|--|----|-----------|-------------------|----|--------------|--------------------|-------------------|----|--------------|--------------------|
| Epic Software Costs | \$ | - | \$ 3,990,626 | \$ | 4,297,367 | \$ 6,061,808 | \$ - | \$ | - | \$ 14,349,800 |
| Epic Implementation and Travel Costs | \$ | - | \$ 7,608,174 | \$ | 4,221,394 | \$ 2,351,950 | \$ 1,060,102 | \$ | 1 | \$ 15,241,619 |
| Required 3rd Party Software | \$ | - | \$ 2,592,546 | \$ | 1 | \$ - | \$ - | \$ | 1 | \$ 2,592,546 |
| RCM Bolt On Costs | | - | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ - |
| UVMHN Internal Staffing | | - | \$ 4,641,375 | \$ | 3,800,834 | \$ 2,767,777 | \$ 590,655 | \$ | - | \$ 11,800,641 |
| External Staffing | \$ | - | \$ 11,456,900 | \$ | 11,708,700 | \$ 10,229,375 | \$ 2,990,125 | \$ | - | \$ 36,385,100 |
| Epic Related Technology Costs (Hardware, | \$ | - | \$ 4,196,259 | \$ | 3,925,000 | \$ 2,942,500 | \$ 83,333 | \$ | - | \$ 11,147,093 |
| Network Related Technology Costs | | - | \$ 3,516,900 | \$ | 836,756 | \$ 805,390 | \$ - | \$ | - | \$ 5,159,047 |
| Facilities, Communications and Travel | \$ | - | \$ 1,073,055 | \$ | 115,480 | \$ - | \$ - | \$ | - | \$ 1,188,535 |
| Pre-Implementation - External Staffing | \$ | 1,458,180 | | | | | | | | \$ 1,458,180 |
| | \$ | - | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ - |
| Total Capital Costs | | 1,458,180 | \$ 39,075,835 | \$ | 28,905,530 | \$ 25,158,799 | \$ 4,724,216 | \$ | - | \$ 99,322,561 |
| Contingency 10% | | 145,818 | 3,907,584 | \$ | 2,890,553 | \$ 2,515,880 | \$ 472,422 | | - | \$ 9,932,256 |
| Grand Total Capital Costs | | 1,603,998 | \$ 42,983,419 | \$ | 31,796,083 | \$ 27,674,679 | \$ 5,196,637 | \$ | - | \$ 109,254,817 |
| Epic Software Costs | | - | \$ - | \$ | 685,098 | \$ 1,630,533 | \$ 2,662,005 | \$ | 3,015,509 | \$ 7,993,145 |
| Required 3rd Party Software | | - | \$ - | \$ | 348,007 | \$ 718,451 | \$ 741,673 | \$ | 765,709 | \$ 2,573,839 |
| RCM Bolt On Costs | _ | _ | \$ _ | \$ | - | \$ _ | \$ | \$ | - | \$ - |
| UVMHN Internal Staffing | | _ | \$ 924,502 | \$ | 3,344,949 | \$ 5,800,043 | \$ 8,507,258 | \$ | 7,719,765 | \$ 26,296,516 |
| External Staffing | | _ | \$ 377,700 | \$ | 1,101,625 | \$ 818,350 | \$ 535,075 | \$ | _ | \$ 2,832,750 |
| Epic Related Technology Costs (Hardware, | | - | \$ 1,386,000 | | 1,454,000 | \$ 1,472,900 | \$ 1,492,745 | | 1,513,582 | \$ 7,319,227 |
| Network Related Technology Costs | | - | \$ 5,652,060 | _ | 5,449,186 | \$ 4,976,629 | \$ 5,513,847 | \$ | 5,770,810 | \$ 27,362,533 |
| Facilities, Communications and Travel | | - | \$ 265,938 | | 667,704 | \$ 610,692 | \$ 564,358 | \$ | - | \$ 2,108,691 |
| UVMHN Staffing Offsets | | - | \$ (2,943,311) | \$ | (3,146,513) | \$ (5,653,331) | (8,349,263) | _ | (9,986,680) | (30,079,099) |
| UVMHN Legacy System Offsets | \$ | - | \$ - | \$ | - | \$ (1,956,071) | \$ (3,825,902) | \$ | (5,890,410) | \$ (11,672,383) |
| | \$ | - | \$ - | \$ | - | \$ - | \$ - | \$ | - | \$ - |
| Total OpEx | | - | \$ 5,662,888 | \$ | 9,904,056 | \$ 8,418,195 | \$ 7,841,795 | \$ | 2,908,285 | \$ 34,735,219 |
| Contingency 10% | | - | \$ 860,619.91 | \$ | 1,305,056.85 | \$ 1,602,759.72 | \$ | \$ | 1,878,537.50 | \$ 7,648,670.10 |
| Grand Total OpEx | | | \$ 6,523,508 | \$ | 11,209,112 | \$ 10,020,955 | \$ 9,843,491 | \$ | 4,786,822 | \$ 42,383,889 |
| Total Project Cost | \$ | 1,603,998 | \$ 49,506,927 | \$ | 43,005,195 | \$ 37,695,634 | \$ 15,040,128 | \$ | 4,786,822 | \$ 151,638,705 |

EXHIBIT B

Interoperability Exchange Statistics The University of Vermont Medical Center

Care Everywhere Update - November 2016



We've exchanged patient records with organizations spanning



635,311

patient records exchanged in 2016

76,901

patient records exchanged in 2015

723,975

since Care Everywhere Go-Live in 2014

We've exchanged patient records with more than

730

hospitals

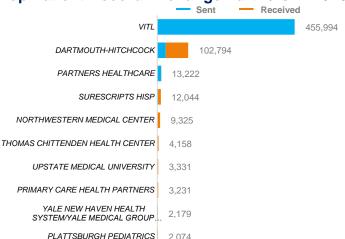
920

emergency departments and

20,440

clinics

Top Patient Record Exchange Partners In 2016



Incorporated Outside Data

Implemented Features



Carequality

We are Carequality connected!

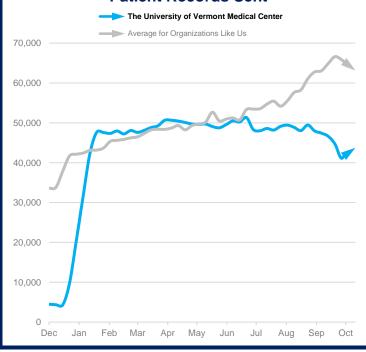
Connection Live Since: 09/07/2016

Govern

Government Connections

Connect to the SSA, DoD, and VA

Patient Records Sent



Patient Records Received

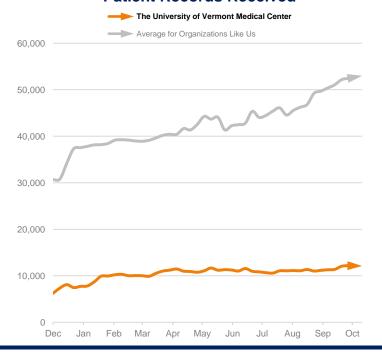


EXHIBIT C

Financial Forecasts FY2016 – FY2025 Summary of Assumptions

FY2016

• FY 2016 actual operating results

FY2017

Based on budget, updated with margin target objectives

FY2018 - FY2025

• Net Patient Service Revenue

o Fixed 3.5% increase from year to year to prepare for population health / all-payer model

• Other Revenue

Assumed a growth rate equal to expense inflation each year

• Salary & Other Expense each year:

- Staff salaries 3.0%
- MD salaries 2.0%
- Benefits shifts with salaries, assumed same % of salaries as FY2017
- Med/surg supplies 3.0%
- o Pharmaceutical supplies 5.0%
- Other supplies 2.0%
- Purchased services 1.0%
- Insurance + utilities 2.0%
- Lease + rental 2.0%

• Other Major Items:

- o Assumes 4.0% annual return on investments
- Includes additional pension funding 2016 2020
- Annual philanthropy \$5 million year
- Additional debt:
 - 2017: \$89 million to fund Miller Building
 - 2017: \$20 million to fund South Burlington conversion of leases to owned sites of practice
 - 2017: \$50 million added to cash balance

<u>Capital</u>

- o FY2016 FY2020
 - UVMMC current capital plan \$544 million
 - UVMHN (includes UVMMC) current capital plan \$697 million

- FY2021 FY2025: estimated annual capital spend for FY2021 and increased by 3% each year
 - UVMMC \$377 million
 - UVMHN (includes UVMMC) \$548 million

• Miller Building

- o Includes all interest & principal payments from the \$89 million financing
- o Includes additional operating expenses from business plan / CON
- o Includes philanthropy dollars not already collected

• Epic Assumptions:

| | 6-Year S | Summary of Epic | Costs & Funds F | low | |
|---|---|--|---|--|--|
| | Total University of Vermont Health Network (UVMHN) | University of Vermont Medical Center (UVMMC) | Central Vermont Medical Center (CVMC) | NY Champlain Valley Physicians Hospital (CVPH) | NY Elizabethtown Community Hospital (ECH) |
| Total Capital Costs ¹ | \$109,254,817 | \$109,254,817 | \$0 | \$0 | \$0 |
| Total Operating Costs ² | \$84,135,371 | \$84,135,371 | \$0 | \$0 | \$0 |
| Subscription Fees ³ | \$0 | (\$28,160,039) | \$9,633,978 | \$16,817,371 | \$1,708,690 |
| Total System & Staffing Offsets ⁴ | (\$41,751,484) | (\$27,199,872) | (\$4,370,523) | (\$9,293,353) | (\$887,736) |
| Total Net Capital & Operating Cost of Epic Implementation | \$151,638,704 | \$138,030,277 | \$5,263,455 | \$7,524,018 | \$820,954 |

Footnotes:

- 1 UVMMC as the licensee has all the capital costs
- 2 UVMMC as the Epic licensee will be allocated all operating costs
- 3 The UVMHN hospitals reimburse UVMMC for their share of the operating costs
- 4 Staffing & system offset savings generated from Epic implementation
- For fiscal years 2023 2025 increased total operating expense by 3.0% a year
- Model includes all depreciation expense

• FTE Growth:

- Historical average growth rate has ranged between 1.0%-2.0%
- Model assumes 0.6% growth rate for FY2018 FY2020
- Model assumes 1.0% growth rate for FY2021 FY2025

• Established margin targets by year to maintain "A" credit rating:

| | UVMHN | <u>UVMMC</u> | <u>CVMC</u> | <u>CPI</u> |
|----------------------------|-------|--------------|-------------|------------|
| Margin Objectives by Year: | | | | |
| FY 2016 Actual | 3.92% | 6.27% | 1.05% | -1.30% |
| FY 2017 Proj | 2.76% | 4.03% | 1.12% | 0.02% |
| FY 2018 Proj | 2.35% | 2.99% | 1.48% | 0.99% |
| FY 2019 Proj | 2.81% | 3.24% | 2.06% | 1.93% |
| FY 2020 Proj | 3.38% | 3.59% | 3.01% | 2.97% |
| FY 2021 Proj | 3.54% | 3.82% | 3.02% | 3.00% |
| FY 2022 Proj | 3.55% | 3.82% | 3.03% | 3.05% |
| FY 2023 Proj | 3.54% | 3.75% | 3.06% | 3.16% |
| FY 2024 Proj | 3.44% | 3.63% | 3.22% | 3.02% |
| FY 2025 Proj | 3.54% | 3.87% | 2.95% | 2.91% |

• Operational efficiencies & improvements necessary to achieve margin targets:

| | <u>UVMHN</u> | <u>UVMMC</u> | <u>CVMC</u> | <u>CPI</u> |
|--|---------------|--------------|-------------|--------------|
| | | | | |
| Total Margin Initiative Improvement Objective by FY 2023 | \$104,000,000 | \$75,000,000 | \$9,000,000 | \$20,000,000 |
| Initiative Improvement Objective by FY2018 | \$19,000,000 | \$12,500,000 | \$2,500,000 | \$4,000,000 |
| Initiative Improvement Objective by FY2019 | \$24,000,000 | \$17,500,000 | \$2,500,000 | \$4,000,000 |
| Initiative Improvement Objective by FY2020 | \$19,500,000 | \$15,000,000 | \$1,500,000 | \$3,000,000 |
| Initiative Improvement Objective by FY2021 | \$13,500,000 | \$10,000,000 | \$500,000 | \$3,000,000 |
| Initiative Improvement Objective by FY2022 | \$14,500,000 | \$10,000,000 | \$1,500,000 | \$3,000,000 |
| Initiative Improvement Objective by FY2023 | \$13,500,000 | \$10,000,000 | \$500,000 | \$3,000,000 |

• Margin improvement objective:

- Averages ~1.1% of total expense for years FY2018 FY2020
- Averages ~0.7% of total expense for years FY2021 − FY2023

<u>Note</u>: All projections and estimates will be updated and reviewed on an annual basis. Management's focus and responsibility will be on achieving operating margin targets as listed above by year. With each update, assumptions will be modified and appropriate actions will be taken to maintain an "A" credit rating.

| | A | E | F | G | Н | | J | K | L | M | N |
|----------|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|
| 2 | (UVMHN = UVMMC + CVMC + CPI) | | | | | Hospital A | Advisor | | | | |
| 3 | | Filt | er Financ | ial Charts C | apital Analysis | Control | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | D | rojection Year | re | | | |
| 7 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| | Income Statement | | | | | | | | | | |
| 10 | Patient Revenue | | | | | | | | | | |
| 11 | Inpatient Services | \$1,213,548 | \$1,261,970 | \$1,325,069 | \$1,391,322 | \$1,460,889 | \$1,533,933 | \$1,610,630 | \$1,691,161 | \$1,775,719 | \$1,864,505 |
| 12 | Outpatient Services | 2,776,323 | 2,783,799 | 2,952,220 | 3,130,828 | 3,320,244 | 3,521,117 | 3,734,146 | 3,960,061 | 4,199,646 | 4,453,723 |
| 13 | Gross Patient Revenue | 3,989,871 | 4,045,769 | 4,277,289 | 4,522,150 | 4,781,133 | 5,055,050 | 5,344,776 | 5,651,222 | 5,975,365 | 6,318,228 |
| 14 | Dadustians from Potiont Devenue | | | | | | | | | | |
| 15 16 | Deductions from Patient Revenue Contractual Discounts | 2,279,550 | 2,275,297 | 2,444,410 | 2,624,606 | 2,816,661 | 3,021,189 | 3,239,014 | 3,470,981 | 3,717,996 | 3,980,891 |
| 17 | Bad Debt | 44,764 | 39,391 | 41,647 | 44,032 | 46,555 | 49,224 | 52,048 | 55,035 | 58,193 | 61,535 |
| 18 | Provision for Charity | 25,727 | 18,728 | 19,806 | 20,947 | 22,154 | 23,429 | 24,781 | 26,210 | 27,721 | 29,322 |
| 19 | Total Deductions from Revenue | 2,350,041 | 2,333,416 | 2,505,863 | 2,689,585 | 2,885,370 | 3,093,842 | 3,315,843 | 3,552,226 | 3,803,910 | 4,071,748 |
| 20 | . III. Boaddions nom novembe | 2,000,011 | _,555,110 | _,,,,,,,,, | | | 3,333,012 | 3,323,013 | 3,332,220 | 5,555,510 | .,0,1,,10 |
| 21 | Net Patient Revenue | 1,639,830 | 1,712,353 | 1,771,426 | 1,832,565 | 1,895,763 | 1,961,208 | 2,028,933 | 2,098,996 | 2,171,455 | 2,246,480 |
| 22 | | _, | | _,,0 | _,, | _,, | _,, | _,:_0,:00 | _,,,,,, | _,, | _,0, .00 |
| 23 | Other Operating Revenue | 161,179 | 122,858 | 131,645 | 140,588 | 144,690 | 148,960 | 153,407 | 158,039 | 162,863 | 167,888 |
| 24 | | | | | | | | | | | |
| 25 | Total Operating Revenue | 1,801,009 | 1,835,211 | 1,903,071 | 1,973,153 | 2,040,453 | 2,110,168 | 2,182,340 | 2,257,035 | 2,334,318 | 2,414,368 |
| 26 | | | | | | | | | | | |
| 27 | Operating Expenses | 022 404 | 055 035 | 005.003 | 017 421 | 050 034 | 000 700 | 1 021 112 | 1 072 070 | 1 110 744 | 1 165 450 |
| 28 29 | Salaries and Wages Employee Benefits | 823,404 237,302 | 855,835 238,439 | 885,983 247,480 | 917,431 257,041 | 950,034 266,969 | 989,780 279,132 | 1,031,113 291,798 | 1,073,878 304,921 | 1,118,744 318,708 | 1,165,458 333,080 |
| 30 | Contract Labor | 237,302 | 230,439 | 247,480 | 237,041 | 200,909 | 0 | 291,798 | 0 | 318,708 | 333,000 |
| 31 | Professional fees | 33,930 | 29,767 | 30,670 | 31,599 | 32,557 | 33,545 | 34,563 | 35,611 | 36,691 | 37,805 |
| 32 | Supplies | 136,081 | 141,249 | 145,957 | 150,830 | 155,875 | 161,097 | 166,510 | 172,110 | 177,913 | 183,920 |
| 33 | Drugs and Pharmaceuticals | 112,703 | 118,114 | 124,743 | 131,746 | 139,145 | 146,963 | 155,223 | 163,952 | 173,175 | 182,924 |
| 34 | Purchased Services | 89,763 | 89,635 | 86,165 | 73,131 | 57,997 | 49,993 | 35,259 | 23,514 | 25,302 | 27,128 |
| 35 | Depreciation & Amortization | 83,134 | 83,634 | 104,069 | 115,584 | 128,129 | 129,794 | 137,446 | 142,233 | 137,111 | 126,110 |
| 36 37 | Interest Other | 23,117 190,980 | 19,153 198,596 | 23,092 200,239 | 22,200 205,669 | 21,231 204,287 | 20,216 203,422 | 19,342 203,511 | 19,191 207,398 | 18,326 211,380 | 17,667 215,462 |
| 38 | Bad Debt Expense | 190,980 | 10,200 | 9,971 | 12,537 | 15,232 | 21,555 | 30,015 | 34,365 | 36,613 | 39,260 |
| 39 | Bad Best Expense | | 10,200 | 3/3/1 | 12,337 | 13,232 | 21,555 | 30,013 | 31,303 | 30,013 | 33,200 |
| 40 | Total Operating Expenses | 1,730,414 | 1,784,622 | 1,858,369 | 1,917,768 | 1,971,456 | 2,035,498 | 2,104,780 | 2,177,173 | 2,253,963 | 2,328,814 |
| 41 | | | | | | | | | | | |
| 42 | Excess of Revenue over Expenses | 70,595 | 50,589 | 44,702 | 55,385 | 68,997 | 74,670 | 77,560 | 79,862 | 80,355 | 85,554 |
| 43 | from Operations | 3.92% | 2.76% | 2.35% | 2.81% | 3.38% | 3.54% | 3.55% | 3.54% | 3.44% | 3.54% |
| 44 | | | | | | | | | | | |
| 45 | Nonoperating Revenue | | | 22.072 | 22 524 | 24.252 | 27.245 | 20.407 | 24.000 | 27.576 | 41.000 |
| 46 47 | Investment Income Interest Expense | 0 | 0 | 22,972 0 | 22,526 0 | 24,353 0 | 27,315 0 | 30,497 0 | 34,006 0 | 37,576 0 | 41,099 0 |
| 48 | Unrestricted Contributions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 | Other | 6,258 | 17,555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | | =1==0 | , | | <u> </u> | | | | <u> </u> | | |
| 51 | Net Nonoperating Revenue | 6,258 | 17,555 | 22,972 | 22,526 | 24,353 | 27,315 | 30,497 | 34,006 | 37,576 | 41,099 |
| 52 | <u> </u> | | | | | | | | | | |
| 53 | Excess of Revenue over Expenses | 76,853 | 68,144 | 67,674 | 77,911 | 93,350 | 101,985 | 108,057 | 113,868 | 117,931 | 126,653 |
| 54 | Before Extraordinary Items | | | | | _ | | | | _ | |
| 55 | | | | | | | | | | | |
| 56 | Extraordinary Items | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 57 | France of Doverno and F | 476 055 | 466 111 | 46- 6- | 477.044 | 402.252 | 4404 005 | 4400 0== | 4445.000 | 444-004 | 4426 655 |
| 58 | Excess of Revenue over Expenses | \$ <u>76,853</u> | \$ <u>68,144</u> | \$ <u>67,674</u> | \$ <u>77,911</u> | \$ <u>93,350</u> | \$ <u>101,985</u> | \$ <u>108,057</u> | \$ <u>113,868</u> | \$ <u>117,931</u> | \$ <u>126,653</u> |
| 59 60 | | | | | | | | | | | |
| 60 | | | | | | | | | | | |
| 01 | | | | | | | | | | | |

| | A | Е | F | G | Н | - F | J | K | L | М | N |
|------------|--|--------------------|-------------|--------------|--------------------|------------------|----------------|-------------------|--------------------|-------------|-------------|
| 2 | (UVMHN = UVMMC + CVMC + CPI) | • | | | | Hospital | Advisor | | | • | |
| 3 | (| | ter Financ | ial Chauta | Samital Amalysis | | AUVISOF | | | | |
| 4 | | | ter Financ | ial Charts (| apital Analysis | Control | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | D | rojection Year | ·c | | | |
| 7 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 62 | Balance Sheet - Assets | 2010 Actual | 2017 | 2010 | 2019 | 2020 | 2021 | 2022 | 2025 | 2027 | 2023 |
| 63 | balance Sheet - Assets | | I | | | | | | | | |
| | Current Assets | | | | | | | | | | |
| 65 | Cash | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 66 | Current Portion Limites as to Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | Accounts Receivable Net of Reserves | 197,886 | 206,244 | 213,942 | 221,324 | 228,954 | 236,209 | 245,032 | 253,492 | 262,239 | 270,556 |
| 68 | Third Party Settlements | 5,460 | 5,758 | 5,973 | 6,178 | 6,391 | 6,593 | 6,839 | 7,076 | 7,320 | 7,552 |
| 69 | Supply Inventories, at cost | 33,553 | 35,054 | 36,601 | 38,169 | 39,831 | 41,449 | 43,435 | 45,378 | 47,416 | 49,419 |
| 70 | Prepaid Expenses and Other | 27,585 | 28,422 | 29,251 | 29,944 | 30,488 | 31,277 | 32,189 | 33,140 | 34,354 | 35,531 |
| 71 | Total Current Assets | 264,484 | 275,478 | 285,767 | 295,615 | 305,664 | 315,528 | 327,495 | 339,086 | 351,329 | 363,058 |
| 72 | Total Gallene / 1856tb | 201,101 | 2757.75 | 2007.07 | 233/023 | 505/00: | 010/020 | 0277.50 | 3337000 | 001/025 | 203/030 |
| | Assets Limited as to Use | | | | | | | | | | |
| 74 | Trusteed Assets | 23,542 | 23,542 | 23,542 | 23,542 | 23,542 | 23,542 | 23,542 | 23,542 | 23,542 | 23,542 |
| 75 | Temporary Restricted Cash | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 |
| 76 | Permanent Restricted Cash | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 |
| 77 | Board Designated Investments | 704,572 | 792,312 | 762,192 | 785,058 | 885,380 | 987,312 | 1,103,596 | 1,227,968 | 1,348,657 | 1,469,952 |
| | Total Assets Limited as to Use | | | | | | | | | | |
| 78 79 | rotal Assets Limited as to USE | 799,041 | 886,781 | 856,661 | 879,527 | 979,849 | 1,081,781 | 1,198,065 | 1,322,437 | 1,443,126 | 1,564,421 |
| | Property, Plant and Equipment | | | | | | | | | | |
| 81 | Cost | 1,476,066 | 1,617,866 | 1,694,066 | 2,004,699 | 2,091,099 | 2,208,099 | 2,313,468 | 2,421,998 | 2,533,784 | 2,648,924 |
| 82 | Accumulated Depreciation | 807,388 | 891,023 | 995,091 | 1,110,676 | 1,238,806 | 1,368,599 | 1,506,046 | 1,648,280 | 1,785,392 | 1,911,502 |
| 83 | Construction in Progress | 22,900 | 76,296 | 164,780 | 544 | (782) | (10,285) | (10,285) | (10,285) | | (10,285) |
| 84 | Net PP&E | 691,578 | 803,139 | 863,755 | 894,567 | 851,511 | 829,215 | 797,137 | 763,433 | 738,107 | 727,137 |
| 85 | NEL PPAE | 091,376 | 003,139 | 003,733 | 094,307 | 651,511 | 029,213 | 797,137 | 703,433 | /30,10/ | /2/,13/ |
| | Other Assets | | | | | | | | | | |
| 87 | Investment in Subsidiaries | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 |
| 88 | Unamortized Financing Fees | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 | Start-up Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | Other Long-Term Assets | 17,021 | 17,021 | 17,021 | 17,021 | 17,021 | 17,021 | 17,021 | 17,021 | 17,021 | 17,021 |
| 91 | Total Other Assets | 40,191 | 40,191 | 40,191 | 40,191 | 40,191 | 40,191 | 40,191 | 40,191 | 40,191 | 40,191 |
| 92 | | | | | | | | | | | |
| 93 | Total Assets | \$1,795,294 | \$2,005,589 | \$2,046,374 | \$2,109,900 | \$2,177,215 | \$2,266,715 | \$2,362,888 | \$2,465,147 | \$2,572,753 | \$2,694,807 |
| 94 | | (4) | (4) | (4) | (4) | (4) | (4) | (4) | (4) | (4) | (4) |
| 95 | | | | | | | | | | | |
| 96 | | | | | | | | | | | |
| | Balance Sheet - Liabilities and Net Assets | | | | | | | | | | |
| 98 | | | | | | | | | | | |
| | Current Liabilities | | | | | | | | | | |
| 100 | Notes Payable - Line of Credit | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 101 | Current Maturities of Debt | 18,070 | 25,063 | 26,007 | 26,628 | 25,071 | 25,794 | 25,658 | 26,312 | 20,287 | 12,961 |
| 102 | A/P and Accrued Expenses | 203,102 | 209,678 | 217,246 | 223,284 | 228,275 | 235,289 | 243,500 | 251,879 | 262,173 | 272,204 |
| 103 104 | Third Party Settlements Other Accrued Liabilities | 15,720 | 16,365 | 16,972 | 17,556 | 18,157 | 18,729 | 19,428 | 20,098 | 20,791 | 21,448 |
| | | 30,862 | 30,862 | 30,862 | 30,862 | 30,862 | 30,862 | 30,862 | 30,862 | 30,862 | 30,862 |
| 105 | Total Current Liabilities | 267,754 | 281,968 | 291,087 | 298,330 | 302,365 | 310,674 | 319,448 | 329,151 | 334,113 | 337,475 |
| 106 | | | | | | | | | | | |
| | Other Liabilities | 04.422 | 04.433 | 04.400 | 04.433 | 04.422 | 0.4.433 | 0.4.422 | 04.433 | 04.433 | 04.436 |
| 108 | Pension and Other Postretirement Benefit Obligations Other Long-Term Liabilities | 94,420 | 94,420 | 94,420 | 94,420 | 94,420 | 94,420 | 94,420 | 94,420 | 94,420 | 94,420 |
| 109 | 3 | 41,889 | 41,889 | 41,889 | 41,889 | 41,889 | 41,889 | 41,889 | 41,889 | 41,889 | 41,889 |
| 110 | Total Other Liabilities | 136,309 | 136,309 | 136,309 | 136,309 | 136,309 | 136,309 | 136,309 | 136,309 | 136,309 | 136,309 |
| 111 | Lang Tours Dobt | 425 227 | FC4 374 | E42 267 | F10 020 | 401 560 | 465 774 | 440 116 | 412.004 | 202 517 | 200 550 |
| 112 | Long-Term Debt | 425,337 | 564,274 | 543,267 | 516,639 | 491,569 | 465,774 | 440,116 | 413,804 | 393,517 | 380,556 |
| 113 | Net Assets | 1 | | | | | | | | 1 | |
| 114 | Fund Balance (Unrestricted) | 894,971 | 952,115 | 1,004,788 | 1,087,699 | 1,176,049 | 1,283,035 | 1,396,092 | 1,514,960 | 1,637,891 | 1,769,544 |
| 116 | Temporarily Restricted Fund Balance | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 |
| 117 | Permanently Restricted Net Assets | 33,161 | 33,161 | 37,766 | 37,766 | 37,766 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 |
| | • | | 1,023,042 | | | | 1,353,962 | | | | |
| 118 | Total Fund | <u>965,898</u> | 1,023,042 | 1,075,715 | <u>1,158,626</u> | <u>1,246,976</u> | 1,353,962 | 1,467,019 | 1,585,887 | 1,708,818 | 1,840,471 |
| 119 | Tatal Liabilities O Not Asset | #1 705 202 | 42 00E E02 | #2 04C 272 | #2 100 00 <i>1</i> | #2 177 242 | #2 266 746 | #3 363 003 | #2 46E 4E4 | #2 F72 7F7 | 42.604.044 |
| 120 | Total Liabilities & Net Assets | \$1,/95,298 | \$2,005,593 | \$2,046,378 | \$2,109,904 | \$2,1/7,219 | \$2,266,719 | \$2,362,892 | \$2,465,151 | \$2,5/2,757 | \$2,694,811 |

| | A | E | F | G | Н | _E | J | К | L | М | N |
|------------|--|-------------------|--------------------|--------------------|------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|
| 2 | (UVMHN = UVMMC + CVMC + CPI) | | | | | 11 -1V | | | | 1 141 | ' '' |
| | (OVPINIT - OVPINIC OVPIC CI 1) | | | | | Hospital | Advisor | | | | |
| 3 | | | ter Financ | ial Charts C | Capital Analysis | Control | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | В | rojection Yea | re | | | |
| 7 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 121 | | ZOTO Actual | 1 | 2010 | 2015 | 2020 | | 2022 | 1 | | 2025 |
| 122 | | | | | | | | | | | |
| | Statement of Changes in Net Assets | | l | | | | l | | I | I | |
| 124 | Statement of changes in Net Assets | | 1 | | | | 1 | | 1 | 1 | |
| | Unrestricted Net Assets: | | | | | | | | | | |
| 126 | Beginning Unrestricted Net Assets | \$818,119 | \$894,971 | \$952,115 | \$1,004,788 | \$1,087,699 | \$1,176,049 | \$1,283,035 | \$1,396,092 | \$1,514,960 | \$1,637,891 |
| 127 | Net Income (Loss) | 76,853 | 68,144 | 67,674 | 77,911 | 93,350 | 101,985 | 108,057 | 113,868 | 117,931 | 126,653 |
| 128 | Change in Net Unrealized Gain/Loss | . 0 | . 0 | . 0 | . 0 | . 0 | . 0 | , 0 | . 0 | 0 | , 0 |
| 129 | Transfers (to) from Affiliates | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | Restricted Contributions Used for Property Acquisitions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 131 | Extraordinary Gain (Loss) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132 | Cumulative Effect of a Change in Accounting Principle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 133 | Additional Minimum Pension Liability | 4,000 | (10,000) | (10,000) | (10,000) | (10,000) | | 0 | 0 | 0 | 0 |
| 134 | Other Unrestricted Activity | (4,000) | | (5,000) | <u>15,000</u> | <u>5,000</u> | <u>5,000</u> | <u>5,000</u> | <u>5,000</u> | <u>5,000</u> | <u>5,000</u> |
| 135 | Increase (Decrease) in Unrestricted Net Assets | <u>76,853</u> | <u>57,144</u> | <u>52,674</u> | 82,911 | <u>88,350</u> | 106,985 | <u>113,057</u> | 118,868 | 122,931 | <u>131,653</u> |
| 136 | | 00 : | 05 | 4 00 :: | | 4 | 1.05 | 1 00 | 4 54 | | |
| | Total Unrestricted Net Assets | 894,972 | 952,115 | 1,004,789 | 1,087,699 | 1,176,049 | 1,283,034 | 1,396,092 | 1,514,960 | 1,637,891 | 1,769,544 |
| 138 | | | | | | | | | | | |
| 139 | Towns upuils Doctricted Not Access | | | | | | | | | | |
| 140 | The production of the producti | 27.766 | 27.766 | 27.766 | 27.766 | 27 766 | 27.766 | 27.766 | 27.766 | 27.766 | 27.766 |
| 141 142 | Beginning Temporarily Restricted Net Assets | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 0 | 37,766 | 37,766 | 37,766 |
| 142 | Contributions Change in Net Unrealized Gain/Loss | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 143 | Restricted Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| 144 | Net Assets Released from Restrictions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 146 | Cumulative Effect of a Change in Accounting Principle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 147 | Other Restricted Activity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 148 | Incr. (Decr.) in Temporarily Restricted Net Assets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| 149 | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | | |
| _ | Ending Balance Temporarily Restricted Net Assets | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 | 37,766 |
| 151 | , , | | | | , | , | | , | | | , |
| 152 | | | | | | | | | | | |
| 153 | Permanently Restricted Net Assets: | | | | | | | | | | |
| 154 | Beginning Permanently Restricted Net Assets | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 |
| 155 | Contributions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156 | Change in Net Unrealized Gain/Loss | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 | Restricted Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 158 | Other Restricted Activity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 159 | Incr. (Decr.) in Permanently Restricted Net Assets | 0 | 0 | 0 | 0 | <u>0</u> | 0 | 0 | 0 | 0 | 0 |
| 160 | Ending Balance Permanently Restricted Net Assets | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 | 33,161 |
| | Enumy balance reimanently Restricted Net Assets | 33,101 | 33,101 | 33,101 | 33,101 | 33,101 | 33,101 | 33,101 | 33,101 | 33,101 | 33,101 |
| 162 | Total Net Assets | ¢06E 900 | \$1,023,042 | ¢1 075 716 | ¢1 150 636 | ¢1 246 076 | ¢1 252 061 | ¢1 467 010 | ¢1 E0E 007 | £1 700 010 | ¢1 940 471 |
| | TOTAL MET ASSETS | \$ <u>905,699</u> | ₹ <u>1,023,042</u> | ⊅ <u>1,U/5,/16</u> | ₹1,138,626 | ₽ <u>1,240,976</u> | ₹1,353,961 | ₽ <u>1,40/,U19</u> | ⊅ <u>1,565,88/</u> | ⊅ <u>1,/∪8,818</u> | ₹ <u>1,840,471</u> |
| 164 | | | | | | | | | | | |
| 165 | | | | | | | | | | | |
| 166 | | I | 1 | I | l | | 1 | | 1 | 1 | 1 |

| A | E | F | G | Н | = L | J | K | L | M | N |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|---------------------|--|---------------------|
| 2 (UVMHN = UVMMC + CVMC + CPI) | | | • | | Hospital A | Advisor | • | | | |
| 3 | Filte | Financi | al Charts Ca | pital Analysis | Control | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | 2016.0 | 2017 | 2010 | 2010 | | rojection Year | | 2022 | 2024 | 2025 |
| | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 167 Cash Flow Statement | | | | | | | I | | | |
| 169 Sources of Cash: | | | | | | | | | | |
| 170 Excess of Revenues over Expenses | + | | | | | | | | | |
| 171 from Operations | \$70,595 | \$50,589 | \$44,702 | \$55,385 | \$68,997 | \$74,670 | \$77,560 | \$79,862 | \$80,355 | \$85,554 |
| 172 Net Nonoperating Income, Excluding | 4,0,000 | 450,505 | 4,, 52 | ψυυ/συυ | φοσγοσι | ψ,σ. σ | 4777555 | ψ. 5/002 | 400/000 | 400,00 |
| 173 Interest Income and Expense | 6,258 | 17,555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 174 Extraordinary Items, Transfers and Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 Items Not Affecting Working Capital: | | | | | | | | | | |
| 176 Depreciation | 83,134 | 83,634 | 104,069 | 115,584 | 128,129 | 129,794 | 137,446 | 142,233 | 137,111 | 126,110 |
| 177 Amortization of Financing Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 178 Other | 0 | (11,000) | (15,000) | 5,000 | (5,000) | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| 179 180 Long Term Debt Proceeds | 0 | 164,000 | 5,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 180 Long Term Debt Proceeds | <u>U</u> | 104,000 | <u>5,000</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> |
| 182 Total Sources of Cash | 159,987 | 304,778 | 138,771 | 175,969 | 192,126 | 209,464 | 220,006 | 227,095 | 222,466 | 216,664 |
| 183 | 133,307 | 30 1,770 | 150,771 | 173,303 | 132,120 | 203,101 | 220,000 | 227,033 | 222,100 | 210,001 |
| 184 Uses of Cash: | | | | | | | | | | |
| 185 Change in Working Capital, Excluding | | | | | | | | | | |
| 186 Current Portion of Debt | (\$2,481) | \$3,773 | \$2,114 | \$3,226 | \$4,457 | \$2,278 | \$3,057 | \$2,542 | \$1,256 | \$1,041 |
| 187 Additions to Property, Plant | | | | | | | | | | |
| 188 & Equipment, net | 106,700 | 195,195 | 164,685 | 146,396 | 85,073 | 107,498 | 105,368 | 108,529 | 111,785 | 115,140 |
| 189 Long Term Debt Principal | 12.005 | 40.070 | 25.062 | 26.007 | 26.627 | 25.072 | 25 704 | 25.650 | 26.242 | 20 207 |
| 190 Repayments | 13,995 | <u>18,070</u> | <u>25,063</u> | <u>26,007</u> | <u>26,627</u> | <u>25,072</u> | <u>25,794</u> | <u>25,658</u> | <u>26,312</u> | <u>20,287</u> |
| 192 Total Uses of Cash | 118,214 | 217,038 | 191,862 | 175,629 | 116,157 | 134,848 | 134,219 | 136,729 | 139,353 | 136,468 |
| 193 | 110,214 | 217,036 | 191,002 | 1/3,029 | 110,137 | 134,040 | 134,219 | 130,729 | 139,333 | 130,400 |
| 194 Cash Provided (Used) Prior to | + | | | | | | | | | |
| 195 Interest Income | 41,773 | 87,740 | (53,091) | 340 | 75,969 | 74,616 | 85,787 | 90,366 | 83,113 | 80,196 |
| 196 | | | , , , | | | | | | | |
| 197 Cash Provided from Interest Income | 0 | 0 | 22,972 | 22,526 | 24,353 | 27,315 | 30,497 | 34,006 | 37,576 | 41,099 |
| 198 Cash Used by Interest Expense | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 199 | 44 770 | 07.740 | (20.446) | 22.065 | 100 222 | 101.001 | 446.00: | 101000 | 120.622 | 121 225 |
| 200 Cash Provided (Used) | 41,773 | 87,740 | (30,119) | 22,866 | 100,322 | 101,931 | 116,284 | 124,372 | 120,689 | 121,295 |
| 201 202 Cash Balance, beginning of period | 757,269 | 799,041 | 886,781 | 856,661 | 879,527 | 979,849 | 1,081,781 | 1,198,065 | 1.322.437 | 1,443,126 |
| 203 Cash Balance, beginning of period | 131,209 | / 55,041 | 000,701 | 030,001 | 0/3,32/ | 3/3,049 | 1,001,701 | 1,130,003 | 1,322,437 | 1,443,120 |
| 204 Cash Balance, end of period | \$799,042 | \$886,781 | \$856,662 | \$879,527 | \$979,849 | \$1,081,780 | \$1,198,065 | \$1,322,437 | \$1,443,126 | \$1,564,421 |
| 205 | 7:22,212 | , <u>,</u> | r/= | 1 = 1 = 1 = 1 | T = : = / = 15 | , _,,,,,,, | 1 =1== =1 | 1 | 1 -1 : : : : : : : : : : : : : : : : : : | |
| 206 | | | | | | | | | | |
| 207 Summary of Cash and Investments | | | | | | | | | | |
| 208 Operating Cash | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 209 Board Designated Assets | 704,572 | 792,312 | 762,192 | 785,058 | 885,380 | 987,312 | 1,103,596 | 1,227,968 | 1,348,657 | 1,469,952 |
| 210 Trusteed Assets and Restricted Funds | 94,469 | 94,469 | 94,469 | 94,469 | 94,469 | 94,469 | 94,469 | 94,469 | 94,469 | 94,469 |
| 211 Total | \$ <u>799,041</u> | \$ <u>886,781</u> | \$ <u>856,661</u> | \$ <u>879,527</u> | \$ <u>979,849</u> | \$ <u>1,081,781</u> | \$ <u>1,198,065</u> | \$ <u>1,322,437</u> | \$ <u>1,443,126</u> | \$ <u>1,564,421</u> |
| 212 | | | | | | | | | | |
| 213 | | | | | | | | | | |
| 214 | | | | | | | | | | |

| A | E | F | G | Н | | J | K | L | М | N |
|--------------------------------------|-------------|------------|--------------|--------------------|------------|--|-----------|-----------|-----------|-----------|
| 2 (UVMHN = UVMMC + CVMC + CPI) | | | | | Hospital A | Advisor | | | | |
| 3 | Filt | er Financi | al Charts Ca | pital Analysis | Control | TO T | | | | |
| 4 | | | | .p. ta. 7a. , 5.15 | Control | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | Pi | rojection Year | ·s | | | |
| 7 | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 215 Statistics and Ratios | | | | | | | | | | |
| 216 | | | | | | | | | | |
| 217 | | | | | | | | | | |
| 218 Key Financial Statistics | | | | | | | | | | |
| 219 Net Patient Revenue | 1,639,830 | 1,712,353 | 1,771,426 | 1,832,565 | 1,895,763 | 1,961,208 | 2,028,933 | 2,098,996 | 2,171,455 | 2,246,480 |
| 220 Operating Income | 70,595 | 50,589 | 44,702 | 55,385 | 68,997 | 74,670 | 77,560 | 79,862 | 80,355 | 85,554 |
| 221 Operating EBIDA | 176,846 | 153,376 | 171,863 | 193,169 | 218,357 | 224,681 | 234,348 | 241,286 | 235,792 | 229,331 |
| 222 Excess Revenue over Expenses | 76,853 | 68,144 | 67,674 | 77,911 | 93,350 | 101,985 | 108,057 | 113,868 | 117,931 | 126,653 |
| 223 EBIDA | 183,104 | 170,931 | 194,835 | 215,695 | 242,710 | 251,996 | 264,845 | 275,292 | 273,368 | 270,430 |
| 224 Unrestricted Cash | 704,572 | 792,312 | 762,192 | 785,058 | 885,380 | 987,312 | 1,103,596 | 1,227,968 | 1,348,657 | 1,469,952 |
| 225 Long Term Debt | 425,337 | 564,274 | 543,267 | 516,639 | 491,569 | 465,774 | 440,116 | 413,804 | 393,517 | 380,556 |
| 226 | 120,000 | 55.72. | 0.0720 | , | , | , | ,=== | | , | |
| 227 FTE Analysis | | | | | | | | | | |
| 228 Total FTE's | 10,773 | 10,989 | 11,054 | 11,121 | 11,189 | 11,304 | 11,419 | 11,534 | 11,652 | 11,771 |
| 229 | | | , | , i | , | , | , - | , | , | , |
| 230 Profitability Ratios | | | | | | | | | | |
| 231 Operating Margin | 3.92% | 2.76% | 2.35% | 2.81% | 3.38% | 3.54% | 3.55% | 3.54% | 3.44% | 3.54% |
| 232 Operating EBIDA Margin | 9.82% | 8.36% | 9.03% | 9.79% | 10.70% | 10.65% | 10.74% | 10.69% | 10.10% | 9.50% |
| 233 Excess Margin | 4.25% | 3.68% | 3.51% | 3.90% | 4.52% | 4.77% | 4.88% | 4.97% | 4.97% | 5.16% |
| 234 | | | | | | | | | | |
| 235 Capital Structure Ratios | | | | | | | | | | |
| 236 Debt to Capitalization | 33.13% | 38.23% | 36.17% | 33.31% | 30.52% | 27.70% | 25.02% | 22.51% | 20.17% | 18.19% |
| 237 Debt Service Coverage | 4.93 | 4.59 | 4.05 | 4.47 | 5.07 | 5.56 | 5.87 | 6.14 | 6.12 | 7.13 |
| 238 Debt Service / Revenues | 2.05% | 2.01% | 2.50% | 2.42% | 2.32% | 2.12% | 2.04% | 1.96% | 1.88% | 1.55% |
| 239 Cushion | 18.98 | 21.29 | 15.83 | 16.29 | 18.50 | 21.80 | 24.45 | 27.38 | 30.21 | 38.73 |
| 240 | İ | İ | İ | | | | | | | |
| 241 Liquidity Ratios | | | | | | | | | | |
| 242 Days Cash on Hand | 156.12 | 170.02 | 158.58 | 159.00 | 175.32 | 189.10 | 204.75 | 220.26 | 232.54 | 243.58 |
| 243 Cash to Debt | 165.65% | 140.41% | 140.30% | 151.95% | 180.11% | 211.97% | 250.75% | 296.75% | 342.72% | 386.26% |
| 244 | | | | | | | | | | |
| 245 Other Ratios | | | | | | | | | | |
| 246 Average Age of Plant | 9.71 | 10.65 | 9.56 | 9.61 | 9.67 | 10.54 | 10.96 | 11.59 | 13.02 | 15.16 |
| 247 Capital Spending Ratio | 128.35% | 233.39% | 158.25% | 126.66% | 66.40% | 82.82% | 76.66% | 76.30% | 81.53% | 91.30% |
| 248 | İ | İ | İ | | | | | | | |
| 249 Working Capital Ratios | | | | | | | | | | |
| 250 Days in Accounts Receivable | 44.05 | 43.96 | 44.08 | 44.08 | 44.08 | 43.96 | 44.08 | 44.08 | 44.08 | 43.96 |
| 251 Days in A/P and Accrued Expenses | 51.84 | 51.62 | 51.62 | 51.47 | 51.31 | 50.98 | 50.90 | 50.71 | 50.53 | 50.22 |

| | A | Е | F | G | Н | | J | K | L | M | N |
|----------|--------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 2 | (UVMMC) | | | | | Hospital A | | | | | |
| 3 | | Filt | er Financ | ial Charts C | apital Analysis | Control | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | D | rojection Year | ··· | | | |
| 7 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| _~ | Income Statement | | | | | | | | | | |
| 10 | Patient Revenue | | | | | | | | | | |
| 11 | Inpatient Services | \$721,419 | \$765,740 | \$804,027 | \$844,229 | \$886,440 | \$930,762 | \$977,300 | \$1,026,165 | \$1,077,474 | \$1,131,347 |
| 12 | Outpatient Services | 1,747,965 | 1,739,970 | <u>1,845,238</u> | <u>1,956,875</u> | <u>2,075,266</u> | 2,200,819 | 2,333,969 | 2,475,173 | 2,624,922 | <u>2,783,729</u> |
| 13 | Gross Patient Revenue | 2,469,384 | 2,505,710 | 2,649,265 | 2,801,104 | 2,961,706 | 3,131,581 | 3,311,269 | 3,501,338 | 3,702,396 | 3,915,076 |
| 14 15 | Deductions from Patient Revenue | | | | | | | | | | |
| 16 | Contractual Discounts | 1,362,976 | 1,366,086 | 1,469,292 | 1,579,302 | 1,696,593 | 1,821,602 | 1,954,758 | 2,096,609 | 2,247,711 | 2,408,661 |
| 17 | Bad Debt | 26,410 | 20,713 | 21,900 | 23,157 | 24,486 | 25,891 | 27,379 | 28,953 | 30,617 | 32,377 |
| 18 | Provision for Charity | 17,448 | 10,677 | 11,295 | 11,950 | 12,642 | 13,374 | 14,149 | 14,970 | 15,838 | 16,757 |
| 19 | Total Deductions from Revenue | 1,406,834 | 1,397,476 | 1,502,487 | 1,614,409 | 1,733,721 | 1,860,867 | 1,996,286 | 2,140,532 | 2,294,166 | 2,457,795 |
| 20 | . Sta. Deductions from Revenue | 1,100,054 | 1,337,770 | 1,302,707 | 1,017,709 | 1,, 33,,21 | 1,000,007 | 1,550,200 | 2,110,332 | 2,234,100 | 2,137,733 |
| 21 | Net Patient Revenue | 1,062,550 | 1,108,234 | 1,146,778 | 1,186,695 | 1,227,985 | 1,270,714 | 1,314,983 | 1,360,806 | 1,408,230 | 1,457,281 |
| 22 | | _,:32,330 | _,, | _, , | _,, | _,,,555 | -,-: 0,, -1 | _,, | _, | _, | _,, |
| 23 | Other Operating Revenue | 119,171 | 92,154 | 100,327 | 108,643 | 112,107 | 115,726 | 119,508 | 123,461 | 127,594 | 131,914 |
| 24 | | | | | | | | | | | |
| 25 | Total Operating Revenue | 1,181,721 | 1,200,388 | 1,247,105 | 1,295,338 | 1,340,092 | 1,386,440 | 1,434,491 | 1,484,267 | 1,535,824 | 1,589,195 |
| 26 | | | | | | | | | | | |
| 27 | Operating Expenses | 500 725 | F24 002 | 550.045 | F70 F06 | 504.060 | 646 400 | 642.070 | 670.072 | 600 764 | 720 557 |
| 28 29 | Salaries and Wages Employee Benefits | 508,725 154,564 | 531,982 155,713 | 550,845 161,629 | 570,586 167,941 | 591,068 174,501 | 616,492 182,617 | 642,870 191,047 | 670,073 199,755 | 698,761 208,944 | 728,557 218,499 |
| 30 | Contract Labor | 154,564 | 155,713 | 161,629 | 167,941 | 174,501 | 182,617 | 191,047 | 199,755 | 208,944 | 218,499 |
| 31 | Professional fees | 19,186 | 19,470 | 20,054 | 20,655 | 21,275 | 21,913 | 22,571 | 23,248 | 23,945 | 24,664 |
| 32 | Supplies | 85,868 | 93,469 | 93,500 | 95,176 | 97,509 | 99,591 | 103,723 | 107,322 | 111,053 | 114,915 |
| 33 | Drugs and Pharmaceuticals | 77,559 | 82,024 | 86,624 | 91,485 | 96,620 | 102,046 | 107,779 | 113,837 | 120,238 | 127,003 |
| 34 | Purchased Services | 46,488 | 49,072 | 51,626 | 44,610 | 33,487 | 28,487 | 17,752 | 8,999 | 10,273 | 11,576 |
| 35 | Depreciation & Amortization | 50,476 | 50,459 | 66,967 | 77,370 | 91,005 | 93,236 | 100,649 | 105,760 | 101,471 | 90,940 |
| 36 | Interest | 18,435 | 14,916 | 18,772 | 18,247 | 17,698 | 17,105 | 16,476 | 16,547 | 15,909 | 15,428 |
| 37 | Other | 146,370 | 154,933 | 156,890 | 161,698 | 160,573 | 160,963 | 162,822 | 165,950 | 169,155 | 172,441 |
| 39 | Bad Debt Expense | <u>0</u> | <u>0</u> | <u>2,971</u> | <u>5,537</u> | 8,232 | 11,055 | 14,015 | <u>17,115</u> | 20,363 | 23,760 |
| 40 | Total Operating Expenses | 1,107,671 | 1,152,038 | 1,209,878 | 1,253,305 | 1,291,968 | 1,333,506 | 1,379,704 | 1,428,606 | 1,480,112 | 1,527,783 |
| 41 | Total Operating Expenses | 1,107,071 | 1,132,030 | 1,209,070 | 1,233,303 | 1,291,900 | 1,333,300 | 1,3/9,/04 | 1,720,000 | 1,400,112 | 1,327,703 |
| 42 | Excess of Revenue over Expenses | 74,050 | 48,350 | 37,227 | 42,033 | 48,124 | 52,934 | 54,787 | 55,661 | 55,712 | 61,412 |
| 43 | from Operations | 6.27% | 4.03% | 2.99% | 3.24% | 3.59% | 3.82% | 3.82% | 3.75% | 3.63% | 3.86% |
| 44 | | | | | | | | | | | |
| 45 | Nonoperating Revenue | | | | | | | | | | |
| 46 | Investment Income | 0 | 0 | 19,741 | 19,022 | 20,264 | 22,539 | 25,039 | 27,830 | 30,669 | 33,450 |
| 47 | Interest Expense | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 49 | Unrestricted Contributions Other | 15.864 | 15 257 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | Outer | 15,864 | <u>15,257</u> | <u>U</u> | <u>0</u> | <u>0</u> | <u>U</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>U</u> |
| 51 | Net Nonoperating Revenue | 15,864 | 15,257 | 19,741 | 19,022 | 20,264 | 22,539 | 25,039 | 27,830 | 30,669 | 33,450 |
| 52 | Net Nonoperating Nevenue | 13,004 | 13,237 | 19,741 | 19,022 | 20,204 | 22,339 | 23,039 | 27,030 | 30,009 | 33,730 |
| 53 | Excess of Revenue over Expenses | 89,914 | 63,607 | 56,968 | 61,055 | 68,388 | 75,473 | 79,826 | 83,491 | 86,381 | 94,862 |
| 54 | Before Extraordinary Items | 35/521 | 20,001 | 20,200 | 32,000 | 30,000 | | . 5,525 | 20,.51 | 30,001 | ,002 |
| 55 | Barara Extraoramary Items | | | | | | | | | | |
| 56 | Extraordinary Items | 0 | 0 | 0 | 0 | 0 | <u>0</u> | <u>0</u> | <u>0</u> | 0 | <u>0</u> |
| 57 | | - | _ _ | | | _ | _ | | _ _ | _ | |
| 58 | Excess of Revenue over Expenses | \$ <u>89,914</u> | \$ <u>63,607</u> | \$ <u>56,968</u> | \$ <u>61,055</u> | \$ <u>68,388</u> | \$ <u>75,473</u> | \$ <u>79,826</u> | \$ <u>83,491</u> | \$ <u>86,381</u> | \$ <u>94,862</u> |
| 59 | | | | | | | | | | | |
| 60 | | | | | | | | | | | |
| 61 | | | | | | | | | | | |

| | A | E | F | G | Н | | J | K | L | М | N |
|-----|--|---------------------|-------------|---------------------|-------------------|-------------|---------------|------------------|-------------|-------------|-------------|
| 2 | (UVMMC) | | | | | Hospital | Advisor | | • | | |
| 3 | | Fil | ter Financ | ial Charts | Capital Analysis | Control | HUVISUI | | | | |
| 4 | | | rillalic | iai Cilaits | capital Allalysis | Control | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | D | rojection Yea | re | | | |
| 7 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| × | Balance Sheet - Assets | ZOIO Actual | 2017 | 2010 | 2013 | 2020 | 2021 | LULL | 2023 | 2027 | 2025 |
| 63 | balance Sheet - Assets | 1 | | | | | | I | | | |
| 64 | Current Assets | | | | | | | | | | |
| 65 | Cash | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 66 | Current Portion Limites as to Use | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | Accounts Receivable Net of Reserves | 128,824 | 133,995 | 139,036 | 143,875 | 148,881 | 153,641 | 159,429 | 164,985 | 170,734 | 176,198 |
| 68 | Third Party Settlements | 5,460 | 5,758 | 5,973 | 6,178 | 6,391 | 6,593 | 6,839 | 7,076 | 7,320 | 7,552 |
| 69 | Supply Inventories, at cost | 23,944 | 25,642 | 26,391 | 27,348 | 28,443 | 29,462 | 30,988 | 32,403 | 33,887 | 35,348 |
| 70 | Prepaid Expenses and Other | 23,436 | 24,328 | 25,071 | 25,686 | 26,139 | 26,809 | 27,598 | 28,404 | 29,459 | 30,480 |
| 71 | Total Current Assets | 181,664 | 189,723 | 196,471 | 203,087 | 209,854 | 216,505 | 224,854 | 232,868 | 241,400 | 249,578 |
| 72 | | | | | | | | | | | , |
| 73 | Assets Limited as to Use | | | | | | | | | | |
| 74 | Trusteed Assets | 21,597 | 21,597 | 21,597 | 21,597 | 21,597 | 21,597 | 21,597 | 21,597 | 21,597 | 21,597 |
| 75 | Temporary Restricted Cash | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 |
| 76 | Permanent Restricted Cash | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 |
| 77 | Board Designated Investments | 584,190 | 686,001 | 649,822 | 657,094 | 733,109 | 812,307 | 904,515 | 1,003,705 | 1,099,376 | 1,194,766 |
| 78 | Total Assets Limited as to Use | 663,059 | 764,870 | 728,691 | 735,963 | 811,978 | 891,176 | 983,384 | 1,082,574 | 1,178,245 | 1,273,635 |
| 78 | TOLAT ASSELS LITTILEU AS LO USE | 003,039 | 704,870 | /28,091 | /35,963 | 011,9/8 | 091,1/6 | 903,384 | 1,002,574 | 1,1/8,245 | 1,2/3,035 |
| 80 | Property, Plant and Equipment | | | | 1 | | | | | | |
| 81 | Cost | 1,014,726 | 1,116,126 | 1,159,826 | 1,445,259 | 1,507,959 | 1,592,659 | 1,664,759 | 1,739,022 | 1,815,513 | 1,894,299 |
| 82 | Accumulated Depreciation | 581,377 | 631,837 | 698,803 | 776,172 | 867,178 | 960,414 | 1,061,063 | 1,166,824 | 1,268,296 | 1,359,236 |
| 83 | Construction in Progress | 22,900 | 76,296 | 164,780 | 544 | (782) | (10,285) | (10,285) | (10,285) | (10,285) | (10,285) |
| 84 | Net PP&E | 456,249 | 560,585 | 625,803 | 669,631 | 639,999 | 621,960 | 593,411 | 561,913 | 536,932 | 524,778 |
| 85 | NECTIAL | 750,279 | 300,303 | 023,003 | 009,031 | 039,999 | 021,900 | 393,411 | 301,913 | 330,932 | 324,770 |
| 86 | Other Assets | | | | | | | | | | |
| 87 | Investment in Subsidiaries | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 | 23,170 |
| 88 | Unamortized Financing Fees | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 | Start-up Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | Other Long-Term Assets | 8,781 | 8,781 | 8,781 | 8,781 | 8,781 | 8,781 | 8,781 | 8,781 | 8,781 | 8,781 |
| 91 | Total Other Assets | 31,951 | 31,951 | 31,951 | 31,951 | 31,951 | 31,951 | 31,951 | 31,951 | 31,951 | 31,951 |
| 92 | | | | | | | | | | | |
| 93 | Total Assets | \$ <u>1,332,923</u> | \$1,547,129 | \$1,582,916 | \$1,640,632 | \$1,693,782 | \$1,761,592 | \$1,833,600 | \$1,909,306 | \$1,988,528 | \$2,079,942 |
| 94 | | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) | (3) |
| 95 | | | | | | | | | | | |
| 96 | | | | | | | | | | | |
| 97 | Balance Sheet - Liabilities and Net Assets | | | | | | | | | | |
| 98 | | | | | | | | | | | |
| 99 | Current Liabilities | | | | | | | | | | |
| 100 | Notes Payable - Line of Credit | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 101 | Current Maturities of Debt | 8,072 | 17,094 | 17,591 | 18,348 | 18,326 | 19,491 | 19,668 | 20,799 | 16,840 | 12,961 |
| 102 | A/P and Accrued Expenses | 153,201 | 159,196 | 165,622 | 170,407 | 174,034 | 179,239 | 185,351 | 191,697 | 199,782 | 207,647 |
| 103 | Third Party Settlements | 12,396 | 13,073 | 13,560 | 14,027 | 14,509 | 14,967 | 15,527 | 16,064 | 16,619 | 17,146 |
| 104 | Other Accrued Liabilities | 11,833 | 11,833 | 11,833 | 11,833 | 11,833 | 11,833 | 11,833 | 11,833 | 11,833 | 11,833 |
| 105 | Total Current Liabilities | 185,502 | 201,196 | <u>208,606</u> | 214,615 | 218,702 | 225,530 | 232,379 | 240,393 | 245,074 | 249,587 |
| 106 | | | | | | | | | | | |
| | Other Liabilities | | | | | | , | | 4 | | 4 |
| 108 | Pension and Other Postretirement Benefit Obligations | 14,125 | 14,125 | 14,125 | 14,125 | 14,125 | 14,125 | 14,125 | 14,125 | 14,125 | 14,125 |
| 109 | Other Long-Term Liabilities | 15,826 | 15,826 | 15,826 | 15,826 | 15,826 | 15,826 | 15,826 | 15,826 | 15,826 | 15,826 |
| 110 | Total Other Liabilities | 29,951 | 29,951 | 29,951 | 29,951 | 29,951 | 29,951 | 29,951 | 29,951 | 29,951 | 29,951 |
| 111 | | 201 70: | 4=0.00= | 455.045 | 407.60- | 440.0== | 202 22 | 202 21- | 250 44 : | 2/2 == : | 200.64= |
| 112 | Long-Term Debt | 331,731 | 473,636 | 456,045 | 437,697 | 419,372 | 399,880 | 380,213 | 359,414 | 342,574 | 329,613 |
| 113 | Not Assets | 1 | | | 1 | | | | | | |
| | Net Assets | 720 472 | 705 077 | 024 045 | 001 100 | 060 400 | 1.040.003 | 1 122 702 | 1 222 272 | 1 212 662 | 1 412 522 |
| 115 | | 728,470 | 785,077 | 831,045 | 901,100 | 968,488 | 1,048,962 | 1,133,788 | 1,222,279 | 1,313,660 | 1,413,522 |
| 116 | | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 28,160 | 29,112 | 29,112 | 29,112 |
| 117 | Permanently Restricted Net Assets | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | | 28,160 | 28,160 | 28,160 |
| 118 | Total Fund | 785,742 | 842,349 | 888,317 | 958,372 | 1,025,760 | 1,106,234 | 1,191,060 | 1,279,551 | 1,370,932 | 1,470,794 |
| 119 | | | ** - ** | | | | | | | | |
| 120 | Total Liabilities & Net Assets | \$1,332,926 | \$1,547,132 | \$ <u>1,582,919</u> | \$1,640,635 | \$1,693,785 | \$1,761,595 | \$1,833,603 | \$1,909,309 | \$1,988,531 | \$2,079,945 |

| | Λ | F | | G | ш | r r | | V | 1 1 | M | N |
|------------|---|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|---------------------|----------------------|---------------------|---------------------|
| 2 | (UVMMC) | E | F | G | Н | Hospital | UT J | K | <u> </u> | M | IN |
| | (UVMMC) | | | | | - Hospital I | Advisor | | | | |
| 3 | | Filt | er Financia | al Charts C | apital Analysis | Control | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | _ | | | | | |
| 6 | | 2016 4 | 2017 | 2010 | 2010 | | rojection Yea | | 2022 | 2024 | 2025 |
| 6 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 121 | | | | | | | | | | | |
| 122 | Statement of Changes in Net Assets | | | | | | | | <u> </u> | | |
| 123 | Statement of Changes in Net Assets | | | | | ĺ | | | 1 | ĺ | |
| | Unrestricted Net Assets: | | | | | | | | | | |
| 126 | Beginning Unrestricted Net Assets | \$648,556 | \$728,470 | \$785,077 | \$831,045 | \$901,100 | \$968,488 | \$1,048,962 | \$1,133,788 | \$1,222,279 | \$1,313,660 |
| 127 | Net Income (Loss) | 89,914 | 63,607 | 56,968 | 61,055 | 68,388 | 75,473 | 79,826 | 83,491 | 86,381 | 94,862 |
| 128 | Change in Net Unrealized Gain/Loss | 09,914 | 03,007 | 0 | 01,033 | 08,388 | 73,473 | 79,820 | 03,491 | 00,381 | 94,802 |
| 129 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 131 | Extraordinary Gain (Loss) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132 | Cumulative Effect of a Change in Accounting Principle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 133 | Additional Minimum Pension Liability | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | 0 | 0 | 0 | 0 | 0 |
| 134 | Other Unrestricted Activity | (4,000) | (1,000) | (5,000) | 15,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| 135 | Increase (Decrease) in Unrestricted Net Assets | 79,914 | 56,607 | 45,968 | 70,055 | 67,388 | 80,473 | 84,826 | 88,491 | 91,381 | 99,862 |
| 136 | | | | | | | | | | | |
| 137 | Total Unrestricted Net Assets | 728,470 | 785,077 | 831,045 | 901,100 | 968,488 | 1,048,961 | 1,133,788 | 1,222,279 | 1,313,660 | 1,413,522 |
| 138 | | | | | | | | | | | |
| 139 | | | | | | | | | | | |
| | Temporarily Restricted Net Assets: | | | | | | | | | | |
| 141 | Beginning Temporarily Restricted Net Assets | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 |
| 142 | Contributions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 143 | Change in Net Unrealized Gain/Loss | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 144 | Restricted Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| 145 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 146 147 | Cumulative Effect of a Change in Accounting Principle Other Restricted Activity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 148 | Incr. (Decr.) in Temporarily Restricted Net Assets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | <u>0</u> |
| 149 | Their (Decit.) in Temporality Restricted Net Assets | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> |
| | Ending Balance Temporarily Restricted Net Assets | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 | 29,112 |
| 151 | Enamy Balance remporarily restricted Net Assets | 23,112 | 27,112 | 23,112 | 27,112 | 23,112 | 23,112 | 23,112 | 23,112 | 23,112 | 23,112 |
| 152 | | | | | | | | | | | |
| | Permanently Restricted Net Assets: | | | | | | | | | | |
| 154 | Beginning Permanently Restricted Net Assets | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 |
| 155 | Contributions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156 | Change in Net Unrealized Gain/Loss | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 | Restricted Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 158 | Other Restricted Activity | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 159 | Incr. (Decr.) in Permanently Restricted Net Assets | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 160 | | | | | · | | | | | | |
| | Ending Balance Permanently Restricted Net Assets | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 | 28,160 |
| 162 | | | | | | | | | | | |
| 163 | Total Net Assets | \$ <u>785,742</u> | \$ <u>842,349</u> | \$ <u>888,317</u> | \$ <u>958,372</u> | \$ <u>1,025,760</u> | \$ <u>1,106,233</u> | \$ <u>1,191,060</u> | \$ <u>1,279,55</u> 1 | \$ <u>1,370,932</u> | \$ <u>1,470,794</u> |
| 164 | | | | | | | | | | | |
| 165 | | | | | | | | | | | |
| 166 | | | - | - | - | | | | | | |

| A | Е | F | G | Н | | J | K | L | М | N |
|--|-------------------|----------------------|-------------------|--------------------|-------------------|-----------------------|-------------------|---------------------|---------------------|---------------------|
| 2 (UVMMC) | | | | | Hospital Ad | tvisor | | | | |
| 3 | Filte | Financi | al Charts Ca | pital Analysis | Control | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | D., | | | | | |
| 6 | 2016 Actual | 2017 | 2018 | 2019 | 2020 | ojection Year 2021 | 2022 | 2023 | 2024 | 2025 |
| 167 Cash Flow Statement | 2010 Actual | 2017 | 2010 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2023 |
| 168 | | | | | | | | | | |
| 169 Sources of Cash: | | | | | | | | | | |
| 170 Excess of Revenues over Expenses | | | | | | | | | | |
| 171 from Operations | \$74,050 | \$48,350 | \$37,227 | \$42,033 | \$48,124 | \$52,934 | \$54,787 | \$55,661 | \$55,712 | \$61,412 |
| 172 Net Nonoperating Income, Excluding | | | | | | | | | | |
| 173 Interest Income and Expense | 15,864 | 15,257 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 174 Extraordinary Items, Transfers and Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 Items Not Affecting Working Capital: 176 Depreciation | 50,476 | 50,459 | 66,967 | 77,370 | 91,005 | 93,236 | 100,649 | 105,760 | 101,471 | 90,940 |
| 177 Amortization of Financing Costs | 50,476 | 50,459 | 00,967 | 77,370 | 91,005 | 93,236 | 100,649 | 105,760 | 101,471 | 90,940 |
| 178 Other | (10,000) | (7,000) | (11,000) | 9,000 | (1,000) | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |
| 179 | (22,000) | (1,7000) | (==/000) | 0,000 | (=/===/ | 37333 | | 2/222 | 5/000 | |
| 180 Long Term Debt Proceeds | <u>0</u> | <u>159,000</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 181 | | | | | | | | | | |
| 182 Total Sources of Cash | 130,390 | 266,066 | 93,194 | 128,403 | 138,129 | 151,170 | 160,436 | 166,421 | 162,183 | 157,352 |
| 183 | | | | | | | | | | |
| 184 Uses of Cash: 185 Change in Working Capital, Excluding | + | | | | | | | | | |
| 186 Current Portion of Debt | (\$2,671) | \$1,387 | (\$165) | \$1,364 | \$2,658 | \$988 | \$1,677 | \$1,131 | (\$108) | (\$214) |
| 187 Additions to Property, Plant | (\$2,071) | Ψ1,307 | (\$105) | Ψ1,304 | Ψ2,030 | Ψ300 | Ψ1,077 | Ψ1,151 | (\$100) | (ΨΖΙΨ) |
| 188 & Equipment, net | 75,400 | 154,795 | 132,185 | 121,198 | 61,373 | 75,197 | 72,100 | 74,262 | 76,490 | 78,786 |
| 189 Long Term Debt Principal | | · | , | , | | , | • | , | , | , |
| 190 Repayments | <u>11,346</u> | <u>8,073</u> | <u>17,094</u> | <u>17,591</u> | <u>18,347</u> | <u>18,327</u> | <u>19,490</u> | <u>19,668</u> | <u>20,799</u> | <u>16,840</u> |
| 191 | | | | | | | | | | |
| 192 Total Uses of Cash | 84,075 | 164,255 | 149,114 | 140,153 | 82,378 | 94,512 | 93,267 | 95,061 | <u>97,181</u> | 95,412 |
| 193 194 Cash Provided (Used) Prior to | | | | | | | | | | |
| 195 Interest Income | 46,315 | 101,811 | (55,920) | (11,750) | 55,751 | 56,658 | 67,169 | 71,360 | 65,002 | 61,940 |
| 196 | +0,313 | 101,011 | (33,320) | (11,750) | 33,731 | 30,030 | 07,103 | 71,500 | 03,002 | 01,540 |
| 197 Cash Provided from Interest Income | 0 | 0 | 19,741 | 19,022 | 20,264 | 22,539 | 25,039 | 27,830 | 30,669 | 33,450 |
| 198 Cash Used by Interest Expense | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 199 | | | | | | | | | | |
| 200 Cash Provided (Used) | 46,315 | 101,811 | (36,179) | 7,272 | 76,015 | 79,197 | 92,208 | 99,190 | 95,671 | 95,390 |
| 201 | 616 744 | 662.050 | 764.070 | 720 664 | 725.062 | 011 070 | 001 176 | 002.204 | 1 002 574 | 1 170 245 |
| 202 Cash Balance, beginning of period 203 | 616,744 | <u>663,059</u> | <u>764,870</u> | 728,691 | <u>735,963</u> | <u>811,978</u> | 891,176 | 983,384 | 1,082,574 | <u>1,178,245</u> |
| 203 Cash Balance, end of period | \$663,059 | \$764,870 | \$728,691 | \$735,963 | \$811,978 | \$891,175 | \$983,384 | \$1,082,574 | \$1,178,245 | \$1,273,635 |
| 205 | Ψ <u>σσσ,σσσ</u> | Ψ <u>, ο τ, ο, ο</u> | Ψ <u>, 20,051</u> | Ψ <u>, 23, 303</u> | Ψ <u>σ11,570</u> | Ψ <u>σσ1,175</u> | 4 <u>555,564</u> | # <u>1,002,074</u> | Ψ <u>1,1,0,2</u> ¬3 | ¥ <u>1,2,3,033</u> |
| 206 | + | | | | | | | | | |
| 207 Summary of Cash and Investments | + | | | | | | | | | - |
| 208 Operating Cash | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 209 Board Designated Assets | 584,190 | 686,001 | 649,822 | 657,094 | 733,109 | 812,307 | 904,515 | 1,003,705 | 1,099,376 | 1,194,766 |
| 210 Trusteed Assets and Restricted Funds | 78,869 | <u>78,869</u> | <u>78,869</u> | <u>78,869</u> | <u>78,869</u> | <u>78,869</u> | <u>78,869</u> | <u>78,869</u> | <u>78,869</u> | <u>78,869</u> |
| 211 Total | \$ <u>663,059</u> | \$ <u>764,870</u> | \$ <u>728,691</u> | \$ <u>735,963</u> | \$ <u>811,978</u> | \$ <u>891,176</u> | \$ <u>983,384</u> | \$ <u>1,082,574</u> | \$ <u>1,178,245</u> | \$ <u>1,273,635</u> |
| 212 | | | | | | | | | | |
| 213 | + | | | | | | | | | |
| 214 | | | | | | | | | | |

| A | E | F | G | Н | | J | K | L | М | N | | |
|--------------------------------------|------------------|------------|--------------|----------------|------------|-----------|-----------|-----------|-----------|-----------|--|--|
| 2 (UVMMC) | | | | | Hospital A | Advisor | | | | | | |
| 3 | Filt | er Financi | al Charts Ca | pital Analysis | Control | | | | | | | |
| 4 | | | | <u> </u> | | | | | | | | |
| 5 | | | | | | | | | | | | |
| 6 | Projection Years | | | | | | | | | | | |
| 7 | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | | |
| 215 Statistics and Ratios | | | | | | | | | | | | |
| 216 | | | | | | | | | | | | |
| 217 | | | | | | | | | | | | |
| 218 Key Financial Statistics | | | | | | | | | | | | |
| 219 Net Patient Revenue | 1,062,550 | 1,108,234 | 1,146,778 | 1,186,695 | 1,227,985 | 1,270,714 | 1,314,983 | 1,360,806 | 1,408,230 | 1,457,281 | | |
| 220 Operating Income | 74,050 | 48,350 | 37,227 | 42,033 | 48,124 | 52,934 | 54,787 | 55,661 | 55,712 | 61,412 | | |
| 221 Operating EBIDA | 142,961 | 113,725 | 122,966 | 137,650 | 156,827 | 163,276 | 171,912 | 177,968 | 173,092 | 167,780 | | |
| 222 Excess Revenue over Expenses | 89,914 | 63,607 | 56,968 | 61,055 | 68,388 | 75,473 | 79,826 | 83,491 | 86,381 | 94,862 | | |
| 223 EBIDA | 158,825 | 128,982 | 142,707 | 156,672 | 177,091 | 185,815 | 196,951 | 205,798 | 203,761 | 201,230 | | |
| 224 Unrestricted Cash | 584,190 | 686,001 | 649,822 | 657,094 | 733,109 | 812,307 | 904,515 | 1,003,705 | 1,099,376 | 1,194,766 | | |
| 225 Long Term Debt | 331,731 | 473,636 | 456,045 | 437,697 | 419,372 | 399,880 | 380,213 | 359,414 | 342,574 | 329,613 | | |
| 226 | | | | | | | | | | | | |
| 227 FTE Analysis | | | | | | | | | | | | |
| 228 Total FTE's | 6,441 | 6,577 | 6,616 | 6,657 | 6,698 | 6,769 | 6,838 | 6,907 | 6,978 | 7,049 | | |
| 229 | | | | | | | | | | | | |
| 230 Profitability Ratios | | | | | | | | | | | | |
| 231 Operating Margin | 6.27% | 4.03% | 2.99% | 3.24% | 3.59% | 3.82% | 3.82% | 3.75% | 3.63% | 3.86% | | |
| 232 Operating EBIDA Margin | 12.10% | 9.47% | 9.86% | 10.63% | 11.70% | 11.78% | 11.98% | 11.99% | 11.27% | 10.56% | | |
| 233 Excess Margin | 7.51% | 5.23% | 4.50% | 4.65% | 5.03% | 5.36% | 5.47% | 5.52% | 5.51% | 5.85% | | |
| 234 | | | | | | | | | | | | |
| 235 Capital Structure Ratios | | | | | | | | | | | | |
| 236 Debt to Capitalization | 31.81% | 38.46% | 36.30% | 33.60% | 31.13% | 28.56% | 26.07% | 23.73% | 21.48% | 19.51% | | |
| 237 Debt Service Coverage | 5.33 | 5.61 | 3.98 | 4.37 | 4.91 | 5.24 | 5.48 | 5.68 | 5.55 | 6.24 | | |
| 238 Debt Service / Revenues | 2.49% | 1.89% | 2.83% | 2.73% | 2.65% | 2.51% | 2.46% | 2.40% | 2.34% | 1.99% | | |
| 239 Cushion | 19.62 | 29.84 | 18.12 | 18.34 | 20.34 | 22.93 | 25.15 | 27.72 | 29.95 | 37.03 | | |
| 240 | | | | | | | | | | | | |
| 241 Liquidity Ratios | | | | | | | | | | | | |
| 242 Days Cash on Hand | 201.69 | 227.30 | 207.53 | 203.96 | 222.81 | 239.05 | 258.12 | 276.94 | 291.06 | 303.51 | | |
| 243 Cash to Debt | 176.10% | 144.84% | 142.49% | 150.13% | 174.81% | 203.14% | 237.90% | 279.26% | 320.92% | 362.48% | | |
| 244 | | | | | | | | | | | | |
| 245 Other Ratios | 47.55 | 10.55 | 10.61 | 10.55 | 0 == | 10.55 | 10.5: | 44.55 | 10.55 | | | |
| 246 Average Age of Plant | 11.52 | 12.52 | 10.44 | 10.03 | 9.53 | 10.30 | 10.54 | 11.03 | 12.50 | 14.95 | | |
| 247 Capital Spending Ratio | 149.38% | 306.77% | 197.39% | 156.65% | 67.44% | 80.65% | 71.64% | 70.22% | 75.38% | 86.64% | | |
| 248 | | | | | | | | | | | | |
| 249 Working Capital Ratios | 4: | | | 44.5- | | 44.5 | 11.5- | | | | | |
| 250 Days in Accounts Receivable | 44.25 | 44.13 | 44.25 | 44.25 | 44.25 | 44.13 | 44.25 | 44.25 | 44.25 | 44.13 | | |
| 251 Days in A/P and Accrued Expenses | 56.98 | 56.67 | 56.67 | 56.57 | 56.49 | 56.23 | 56.27 | 56.16 | 56.03 | 55.75 | | |

| | A | E | F | G | Н | | J | K | L | М | N |
|----|--|--------------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|
| 2 | (CVMC) | | | | | Hospital Ad | visor | | | | |
| 3 | Filter Financial Charts Capital Analysis Control | | | | | | | | | | |
| 4 | | - 110 | Tindici | ar charts | apital Allarysis | Control | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | Pro | ojection Year | s | | | |
| 7 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 9 | Income Statement | | | | | | | | | | |
| 10 | Patient Revenue | | | | | | | | | | |
| 11 | Inpatient Services | \$107,099 | \$106,930 | \$112,276 | \$117,890 | \$123,785 | \$129,974 | \$136,473 | \$143,296 | \$150,461 | \$157,984 |
| 12 | Outpatient Services | 269,268 | 262,554 | 278,439 | 295,284 | 313,149 | 332,094 | 352,186 | 373,493 | 396,090 | 420,053 |
| 13 | Gross Patient Revenue | 376,367 | 369,484 | 390,715 | 413,174 | 436,934 | 462,068 | 488,659 | 516,789 | 546,551 | 578,037 |
| 14 | | | | | | | | | | | |
| 15 | Deductions from Patient Revenue | | | | | | | | | | |
| 16 | Contractual Discounts | 185,344 | 177,851 | 192,233 | 207,584 | 223,979 | 241,478 | 260,155 | 280,090 | 301,351 | 324,025 |
| 17 | Bad Debt | <u>5,194</u> | <u>4,843</u> | <u>5,122</u> | <u>5,416</u> | <u>5,727</u> | <u>6,057</u> | <u>6,406</u> | <u>6,775</u> | 7,165 | <u>7,578</u> |
| 18 | Provision for Charity | <u>3,964</u> | <u>4,736</u> | <u>5,008</u> | 5,295 | <u>5,599</u> | <u>5,920</u> | 6,261 | 6,621 | 7,001 | <u>7,404</u> |
| 19 | Total Deductions from Revenue | 194,502 | 187,430 | 202,363 | 218,295 | 235,305 | 253,455 | 272,822 | 293,486 | 315,517 | 339,007 |
| 20 | | | | | | _ | | | | | |
| 21 | Net Patient Revenue | 181,865 | 182,054 | 188,352 | 194,879 | 201,629 | 208,613 | 215,837 | 223,303 | 231,034 | 239,030 |
| 22 | | | | | | | | | | | |
| 23 | Other Operating Revenue | 12,479 | 11,364 | 11,591 | 11,823 | <u>12,059</u> | 12,300 | 12,546 | 12,797 | 13,053 | 13,314 |
| 24 | | | | | | | | | | | |
| 25 | Total Operating Revenue | 194,344 | 193,418 | 199,943 | 206,702 | 213,688 | 220,913 | 228,383 | 236,100 | 244,087 | 252,344 |
| 26 | | | | | | | | | | | |
| 27 | Operating Expenses | | | | | | | | | | |
| 28 | Salaries and Wages | 102,682 | 103,801 | 107,581 | 111,505 | 115,553 | 120,667 | 126,014 | 131,547 | 137,257 | 143,245 |
| 29 | Employee Benefits | 27,041 | 26,433 | 27,486 | 28,582 | 29,713 | 31,176 | 32,710 | 34,298 | 35,939 | 37,663 |
| 30 | Contract Labor | 0 | 0 | 1 202 | 0 | 0 | 0 1,970 | 0 | 2,090 | 2,152 | 0 |
| 31 | Professional fees Supplies | 2,301 12,626 | 1,750 12,149 | 1,803 13,607 | 1,857 14,554 | 1,912 15,329 | 16,245 | 2,029 16,519 | 17,034 | 17,567 | 2,217 18,119 |
| 33 | Drugs and Pharmaceuticals | 10,729 | 12,149 | 11,353 | 11,991 | 12,665 | 13,377 | 14,129 | 14,924 | 15,764 | 16,652 |
| 34 | Purchased Services | 9,023 | 7,713 | 5,306 | 2,901 | 1,497 | 1,095 | (307) | (707) | (605) | (502) |
| 35 | Depreciation & Amortization | 9,716 | 10,108 | 12,728 | 13,827 | 13,500 | 12,673 | 11,958 | 10,812 | 10,065 | 9,893 |
| 36 | Interest | 753 | 501 | 657 | 538 | 425 | 308 | 198 | 116 | 36 | 0 |
| 37 | Other | 17,423 | 16,542 | 16,459 | 16,697 | 16,668 | 16,232 | 16,220 | 16,506 | 16,799 | 17,099 |
| 38 | Bad Debt Expense | 0 | 1,500 | 0 | 0 | 0 | 500 | 2,000 | 2,250 | 1,250 | 500 |
| 39 | - | _ | | _ | _ | _ | | | | | |
| 40 | Total Operating Expenses | 192,294 | 191,246 | 196,980 | 202,452 | 207,262 | 214,243 | 221,470 | 228,870 | 236,224 | 244,886 |
| 41 | 1 3 1 | | | | | | | | | | |
| 42 | Excess of Revenue over Expenses | 2,050 | 2,172 | 2,963 | 4,250 | 6,426 | 6,670 | 6,913 | 7,230 | 7,863 | 7,458 |
| 43 | from Operations | 1.05% | 1.12% | 1.48% | 2.06% | 3.01% | 3.02% | 3.03% | 3.06% | 3.22% | 2.96% |
| 44 | • | | | | | | | | | | |
| 45 | Nonoperating Revenue | | | | | | | | | | |
| 46 | Investment Income | 0 | 0 | 1,534 | 1,593 | 1,654 | 1,798 | 1,996 | 2,185 | 2,368 | 2,567 |
| 47 | Interest Expense | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 48 | Unrestricted Contributions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 | Other | (<u>5,951</u>) | <u>1,873</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 50 | | | | | | | | | | | |
| 51 | Net Nonoperating Revenue | (<u>5,951</u>) | 1,873 | 1,534 | <u>1,593</u> | 1,654 | 1,798 | 1,996 | <u>2,185</u> | 2,368 | 2,567 |
| 52 | | | | | | | | | | | |
| 53 | Excess of Revenue over Expenses | (<u>3,901</u>) | 4,045 | 4,497 | 5,843 | 8,080 | <u>8,468</u> | <u>8,909</u> | 9,415 | 10,231 | 10,025 |
| 54 | Before Extraordinary Items | | | | | | | | | | |
| 55 | | | | | | | | | | | |
| 56 | Extraordinary Items | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 57 | | | | | | | | | | | |
| 58 | Excess of Revenue over Expenses | (<u>\$3,901</u>) | \$ <u>4,045</u> | \$ <u>4,497</u> | \$ <u>5,843</u> | \$ <u>8,080</u> | \$ <u>8,468</u> | \$ <u>8,909</u> | \$ <u>9,415</u> | \$ <u>10,231</u> | \$ <u>10,025</u> |
| 59 | | | | | | | | | | | - |
| 60 | | | | | | | | | | | |
| 61 | | | | | | | | | | | |
| - | | L | I | | l. | | | l. | I | I | |

| | A | E | F | G | Н | | J | K | L | M | N | | |
|------------|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|------------|--|--|
| 2 | (CVMC) | | | | | Hospital Ad | dvisor | | | | | | |
| 3 | Filter Financial Charts Capital Analysis Control | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | | | | | | | ojection Year | | | | | | |
| Z | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | | |
| | Balance Sheet - Assets | | | | | , | | , | | | | | |
| 63 | | | | | | | | | | | | | |
| 64 | Current Assets | +0 | +0 | +0 | +0 | +0 | +0 | +0 | +0 | +0 | +0 | | |
| 65 66 | Cash | \$0 0 \$0 0 | | |
| 67 | Current Portion Limites as to Use Accounts Receivable Net of Reserves | 19,131 | 19,098 | 19,813 | 20,500 | 21,210 | 21,885 | 22,704 | 23,490 | 24,303 | 25,075 | | |
| 68 | Third Party Settlements | 19,131 | 0 | 19,613 | 20,300 | 0 | 21,883 | 0 | 23,490 | 24,303 | 23,073 | | |
| 69 | Supply Inventories, at cost | 3,943 | 3,856 | 4,214 | 4,482 | 4,727 | 4,988 | 5,175 | 5,396 | 5,628 | 5,855 | | |
| 70 | Prepaid Expenses and Other | 3,149 | 3,094 | 3,180 | 3,258 | 3,349 | 3,468 | 3,591 | 3,736 | 3,895 | 4,051 | | |
| 71 | Total Current Assets | 26,223 | 26,048 | 27,207 | 28,240 | 29,286 | 30,341 | 31,470 | 32,622 | 33,826 | 34,981 | | |
| 72 | Total Gallene / loodes | 20,223 | 20/010 | 27/207 | 20/2:0 | 23/200 | 50,5.1 | 52, 6 | 02,022 | 33,023 | 3.,,501 | | |
| | Assets Limited as to Use | | | | | | | | | | | | |
| 74 | Trusteed Assets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 75 | Temporary Restricted Cash | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | | |
| 76 | Permanent Restricted Cash | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | | |
| 77 | Board Designated Investments | 51,444 | 49,774 | 54,069 | 55,234 | 58,298 | 65,035 | 71,810 | 78,063 | 84,358 | 91,677 | | |
| 78 | Total Assets Limited as to Use | 59,844 | 58,174 | 62,469 | 63,634 | 66,698 | 73,435 | 80,210 | 86,463 | 92,758 | 100,077 | | |
| 79 | | 23,3.1 | | , | 25,551 | 20,000 | . 5, .55 | -0,220 | 20,.00 | ,, 50 | _30,0.7 | | |
| 80 | Property, Plant and Equipment | | | | | | | | | | | | |
| 81 | Cost | 174,565 | 188,665 | 198,965 | 209,265 | 219,565 | 229,865 | 240,474 | 251,401 | 262,656 | 274,249 | | |
| 82 | Accumulated Depreciation | 103,167 | 113,275 | 126,002 | 139,830 | 153,330 | 166,002 | 177,960 | 188,772 | 198,837 | 208,730 | | |
| 83 | Construction in Progress | <u>0</u> <u>0</u> | | |
| 84 | Net PP&E | 71,398 | 75,390 | 72,963 | 69,435 | 66,235 | 63,863 | 62,514 | 62,629 | 63,819 | 65,519 | | |
| 85 | | | | | | | | | | | | | |
| | Other Assets | | | | | | | | | | | | |
| 87 | Investment in Subsidiaries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 88 89 | Unamortized Financing Fees Start-up Costs | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 90 | Other Long-Term Assets | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | | |
| 91 | Total Other Assets | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | 1,531 | | |
| 92 | Total Other Assets | 1,331 | 1,331 | 1,551 | 1,551 | 1,551 | 1,551 | 1,551 | 1,551 | 1,551 | 1,551 | | |
| 93 | Total Assets | \$158,996 | \$161,143 | \$164,170 | \$162,840 | \$163,750 | \$169,170 | \$175,725 | \$183,245 | \$191,934 | \$202,108 | | |
| 94 | | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | (1) | | |
| 95 | | | | • | | ` ` | , , | ` ´ | ` ' | , , | , | | |
| 96 | | | | | | | | | | | | | |
| | Balance Sheet - Liabilities and Net Assets | | | , | | | | | | | | | |
| 98 | | | | | | | | | | | | | |
| 99 | Current Liabilities | | | | | | | 1.0 | | | | | |
| 100 | Notes Payable - Line of Credit | \$0 | \$0 3.050 | \$0 3.730 | \$0 3.803 | \$0 3.979 | \$0 3 331 | \$0 2.871 | \$0 2.470 | \$0 700 | \$0 | | |
| 101 | Current Maturities of Debt A/P and Accrued Expenses | 2,718 17,446 | 2,959 17,261 | 3,730 17,606 | 3,803 18,024 | 3,878 18,514 | 3,331 19,208 | 2,871 20,019 | 2,479 20,836 | 790 21,610 | 22,393 | | |
| 102 | Third Party Settlements | 3,914 | 3,918 | 4,062 | 4,201 | 4,344 | 4,480 | 4,646 | 4,805 | 4,969 | 5,125 | | |
| 103 | Other Accrued Liabilities | 2,646 | 2,646 | 2,646 | 2,646 | 2,646 | 2,646 | 2,646 | 2,646 | 2,646 | 2,646 | | |
| 105 | Total Current Liabilities | 26,724 | 26,784 | 28,044 | 28,674 | 29,382 | 29,665 | 30,182 | 30,766 | 30,015 | 30,164 | | |
| 106 | | | | | 20,0, 1 | _5,552 | _5,005 | 30,102 | 20,700 | 30,013 | 30,104 | | |
| | Other Liabilities | | | | | | | | | | | | |
| 108 | Pension and Other Postretirement Benefit Obligations | 32,309 | 32,309 | 32,309 | 32,309 | 32,309 | 32,309 | 32,309 | 32,309 | 32,309 | 32,309 | | |
| 109 | Other Long-Term Liabilities | 2,574 | 2,574 | 2,574 | 2,574 | 2,574 | 2,574 | 2,574 | 2,574 | 2,574 | 2,574 | | |
| 110 | Total Other Liabilities | 34,883 | 34,883 | 34,883 | 34,883 | 34,883 | 34,883 | 34,883 | 34,883 | 34,883 | 34,883 | | |
| 111 | | , | | , | , | - 1,223 | , | , | , | , | , ,, , , , | | |
| | Long-Term Debt | 13,442 | 15,484 | 16,754 | 12,951 | 9,073 | 5,742 | 2,871 | 392 | (399) | (399) | | |
| 113 | | | | | | | | | | | , , | | |
| | Net Assets | | | | | | | | | | | | |
| 115 | | 75,548 | 75,593 | 76,090 | 77,933 | 82,013 | 90,481 | 99,390 | 108,805 | 119,036 | 129,061 | | |
| 116 | Temporarily Restricted Fund Balance | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | | |
| 117 | Permanently Restricted Net Assets | <u>3,326</u> | 3,326 | <u>3,326</u> | <u>3,326</u> | 3,326 | 3,326 | 3,326 | <u>3,326</u> | 3,326 | 3,326 | | |
| 118 | Total Fund | 83,948 | <u>83,993</u> | 84,490 | <u>86,333</u> | 90,413 | 98,881 | <u>107,790</u> | <u>117,205</u> | <u>127,436</u> | 137,461 | | |
| | | i l | | | | | | | | | | | |
| 119 120 | Total Liabilities & Net Assets | \$158,997 | \$161,144 | \$164,171 | \$162,841 | \$163,751 | \$169,171 | \$175,726 | \$183,246 | \$191,935 | \$202,109 | | |

| A | T F T | | G | Н | r 1 | | K | 1 | М | N |
|---|------------------|------------------|------------------|------------------|------------------|------------------------|-------------------|-------------------|-------------------|-------------------|
| 2 (CVMC) | E | F | G | П | A Hospital / | J | r. | L | IVI | IN |
| | | | | | - Hospital P | Advisor | | | | |
| 3 | Filt | er Financia | l Charts C | apital Analysis | Control | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | _ | | | | | |
| 6 | 2016 Actual | 2017 | 2018 | 2019 | 2020 | rojection Year 2021 | 2022 | 2023 | 2024 | 2025 |
| | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 121 | | | | | | | | | | |
| 122 123 Statement of Changes in Net Assets | | | | | | | | | | |
| 123 Statement of Changes in Net Assets | | | | i | | | | | | |
| 125 Unrestricted Net Assets: | | | | | | | | | | |
| 126 Beginning Unrestricted Net Assets | \$69,449 | \$75,548 | \$75,593 | \$76,090 | \$77,933 | \$82,013 | \$90,481 | \$99,390 | \$108,805 | \$119,036 |
| 127 Net Income (Loss) | (3,901) | 4,045 | 4,497 | 5,843 | 8,080 | 8,468 | 8,909 | 9,415 | 10,231 | 10,025 |
| 128 Change in Net Unrealized Gain/Loss | (3,301) | 0 | 0 | 0 | 0,000 | 0,400 | 0,909 | 0,413 | 0 | 0 |
| 129 Transfers (to) from Affiliates | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 130 Restricted Contributions Used for Property Acquisitions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 131 Extraordinary Gain (Loss) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 132 Cumulative Effect of a Change in Accounting Principle | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 133 Additional Minimum Pension Liability | 10,000 | (4,000) | (4,000) | (4,000) | (4,000) | 0 | 0 | 0 | 0 | 0 |
| 134 Other Unrestricted Activity | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | 0 | 0 | <u>0</u> | 0 | 0 |
| 135 Increase (Decrease) in Unrestricted Net Assets | 6,099 | 45 | 497 | 1,843 | 4,080 | 8,468 | 8,909 | 9,415 | 10,231 | 10,025 |
| 136 | | | | | | | | | | |
| 137 Total Unrestricted Net Assets | 75,548 | 75,593 | 76,090 | 77,933 | 82,013 | 90,481 | 99,390 | 108,805 | 119,036 | 129,061 |
| 138 | | | | | | | | | | |
| 139 | | | | | | | | | | |
| 140 Temporarily Restricted Net Assets: | | | | | | | | | | |
| 141 Beginning Temporarily Restricted Net Assets | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 |
| 142 Contributions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 143 Change in Net Unrealized Gain/Loss | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 144 Restricted Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 145 Net Assets Released from Restrictions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 146 Cumulative Effect of a Change in Accounting Principle147 Other Restricted Activity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 148 Incr. (Decr.) in Temporarily Restricted Net Assets | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | <u>0</u> |
| 149 1161. (Dect.) III Temporarily Restricted Net Assets | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> | <u>U</u> |
| 150 Ending Balance Temporarily Restricted Net Assets | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 | 5,074 |
| 151 | 3,074 | 3,074 | 3,074 | 3,074 | 3,074 | 3,074 | 3,074 | 3,074 | 3,074 | 3,074 |
| 152 | | | | | | | | | | |
| 153 Permanently Restricted Net Assets: | | | | | | | | | | |
| 154 Beginning Permanently Restricted Net Assets | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 | 3,326 |
| 155 Contributions | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 156 Change in Net Unrealized Gain/Loss | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 157 Restricted Investment Income | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 158 Other Restricted Activity | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 159 Incr. (Decr.) in Permanently Restricted Net Assets | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 160 | | | | | | | | | | |
| 161 Ending Balance Permanently Restricted Net Assets | <u>3,326</u> | <u>3,326</u> | <u>3,326</u> | <u>3,326</u> | <u>3,326</u> | 3,326 | <u>3,326</u> | <u>3,326</u> | <u>3,326</u> | <u>3,326</u> |
| 162 | | | | | | | | | | |
| 163 Total Net Assets | \$ <u>83,948</u> | \$ <u>83,993</u> | \$ <u>84,490</u> | \$ <u>86,333</u> | \$ <u>90,413</u> | \$ <u>98,881</u> | \$ <u>107,790</u> | \$ <u>117,205</u> | \$ <u>127,436</u> | \$ <u>137,461</u> |
| 164 | | | | | | | | | | |
| 165 | | | | | | | | | | |
| 166 | | | | | | | | | | |

| | Α | Е | F | G | Н | | J | K | L | М | N |
|-----------------|--|------------------|------------------|------------------|------------------|------------------|-----------------------|------------------|------------------|------------------|-------------------|
| 2 | (CVMC) | | | | | Hospital Adv | risor | | | | |
| 3 | | Filte | Financial | Charts | pital Analysis | Control | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | - | | | | D | | _ | | | |
| 7 | | 2016 Actual | 2017 | 2018 | 2019 | 2020 | ojection Year 2021 | s 2022 | 2023 | 2024 | 2025 |
| <u>8</u> 167 | Cash Flow Statement | 2010 Actual | 2017 | 2010 | 2015 | 2020 | 2021 | LUZZ | 2023 | 2024 | 2023 |
| 168 | Cash Flow Statement | | | | | | | | | | |
| | Sources of Cash: | | | | | | | | | | |
| 170 | Excess of Revenues over Expenses | | | | | | | | | | |
| 171 | from Operations | \$2,050 | \$2,172 | \$2,963 | \$4,250 | \$6,426 | \$6,670 | \$6,913 | \$7,230 | \$7,863 | \$7,458 |
| 172 | Net Nonoperating Income, Excluding | | | | | | | | | | |
| 173 | Interest Income and Expense | (5,951) | 1,873 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 174 | Extraordinary Items, Transfers and Other | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 175 176 | Items Not Affecting Working Capital: Depreciation | 9,716 | 10,108 | 12 720 | 12 027 | 12 500 | 12 672 | 11 050 | 10.012 | 10.065 | 0.002 |
| 176 | Amortization of Financing Costs | 9,716 | 10,108 | 12,728 | 13,827 | 13,500 | 12,673 0 | 11,958 0 | 10,812 | 10,065 0 | 9,893 0 |
| 178 | Other | 10,000 | (4,000) | (4,000) | (4,000) | (4,000) | 0 | 0 | 0 | 0 | 0 |
| 179 | 5.1.0. | 10,000 | (1,000) | (1,000) | (1,000) | (1,000) | 3 | 3 | 3 | 3 | 0 |
| 180 | Long Term Debt Proceeds | 0 | 5,000 | 5,000 | <u>0</u> | 0 | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> | <u>0</u> |
| 181 | | | | | | | | | | _ | |
| 182 | Total Sources of Cash | 15,815 | 15,153 | 16,691 | 14,077 | 15,926 | 19,343 | 18,871 | 18,042 | 17,928 | 17,351 |
| 183 | | | | | | | | | | | |
| | Uses of Cash: | | | | | | | | | | |
| 185 | Change in Working Capital, Excluding | +07 | +6 | +670 | +476 | +442 | +225 | +4.50 | +476 | +266 | +246 |
| 186 187 | Current Portion of Debt Additions to Property, Plant | \$87 | \$6 | \$670 | \$476 | \$413 | \$225 | \$152 | \$176 | \$266 | \$216 |
| 188 | & Equipment, net | 13,000 | 14,100 | 10,301 | 10,299 | 10,300 | 10,301 | 10,609 | 10,927 | 11,255 | 11,593 |
| 189 | Long Term Debt Principal | 13,000 | 14,100 | 10,501 | 10,299 | 10,300 | 10,501 | 10,009 | 10,327 | 11,233 | 11,595 |
| 190 | Repayments | 2,649 | 2,717 | 2,959 | 3,730 | 3,803 | 3,878 | 3,331 | 2,871 | 2,480 | 790 |
| 191 | -F- 1 | | | | | | | | | | |
| 192 | Total Uses of Cash | <u>15,736</u> | <u>16,823</u> | 13,930 | <u>14,505</u> | <u>14,516</u> | <u>14,404</u> | 14,092 | <u>13,974</u> | 14,001 | <u>12,599</u> |
| 193 | | | | | | | | | | | |
| 194 | Cash Provided (Used) Prior to | | (4.670) | 0.764 | (100) | | 4 000 | | 1.000 | | |
| 195 | Interest Income | 79 | (1,670) | 2,761 | (428) | 1,410 | 4,939 | 4,779 | 4,068 | 3,927 | 4,752 |
| 196 197 | Cash Provided from Interest Income | 0 | 0 | 1,534 | 1,593 | 1,654 | 1,798 | 1,996 | 2,185 | 2,368 | 2,567 |
| 198 | Cash Used by Interest Expense | 0 | 0 | 0 | 1,593 | 0 | 1,798 | 1,996 | 2,185 | 2,368 | 2,567 |
| 199 | Cash Coda by Interest Expense | <u> </u> | <u> </u> | <u> </u> | | <u> </u> |
| 200 | Cash Provided (Used) | 79 | (1,670) | 4,295 | 1,165 | 3,064 | 6,737 | 6,775 | 6,253 | 6,295 | 7,319 |
| 201 | ` / | | ` ' ' | | | • | · · | | , | | |
| 202 | Cash Balance, beginning of period | <u>59,765</u> | 59,844 | <u>58,174</u> | <u>62,469</u> | 63,634 | 66,698 | 73,435 | 80,210 | <u>86,463</u> | <u>92,758</u> |
| 203 | | 150.0 | 150 151 | 150 155 | 160.60 | 166.605 | .=0.40= | 100.01 | 105.15 | 100 75 | |
| 204 | Cash Balance, end of period | \$ <u>59,844</u> | \$ <u>58,174</u> | \$ <u>62,469</u> | \$ <u>63,634</u> | \$ <u>66,698</u> | \$ <u>73,435</u> | \$ <u>80,210</u> | \$ <u>86,463</u> | \$ <u>92,758</u> | \$ <u>100,077</u> |
| 205 | | | | | | | | | | | |
| 206 207 | Summary of Cash and Investments | | | | | | | | | | |
| 207 | Summary of Cash and Investments Operating Cash | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 209 | Board Designated Assets | 51,444 | 49,774 | 54,069 | 55,234 | 58,298 | 65,035 | 71,810 | 78,063 | 84,358 | 91,677 |
| 210 | Trusteed Assets and Restricted Funds | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 | 8,400 |
| 211 | Total | \$59,844 | \$58,174 | \$62,469 | \$63,634 | \$66,698 | \$73,435 | \$80,210 | \$86,463 | \$92,758 | \$100,077 |
| 212 | | · | · | | · | | · — | | | | · <u> </u> |
| 213 | | | | | | | | | | | |
| 214 | | | | | | | | | | | |
| | | | | | | | | | | | |

| A | Е | F | G | Н | | J | K | L | M | N |
|--------------------------------------|-------------|------------|---------------|-----------------------|------------|--|----------|-----------|-------------|-------------|
| 2 (CVMC) | | | | | Hospital A | Advisor | | | | |
| 3 | Filts | er Financi | ial Charts Ca | apital Analysis | Control | TO TO TO TO TO TO TO TO TO TO TO TO TO T | | | | |
| 4 | | | | aprical 7 iliai y 515 | Control | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | Pi | rojection Year | s | | | |
| 7 | 2016 Actual | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
| 215 Statistics and Ratios | | | | | | | | | | |
| 216 | | | | | | | | | | |
| 217 | | | | | | | | | | |
| 218 Key Financial Statistics | | | | | | | | | | |
| 219 Net Patient Revenue | 181,865 | 182,054 | 188,352 | 194,879 | 201,629 | 208,613 | 215,837 | 223,303 | 231,034 | 239,030 |
| 220 Operating Income | 2,050 | 2,172 | 2,963 | 4,250 | 6,426 | 6,670 | 6,913 | 7,230 | 7,863 | 7,458 |
| 221 Operating EBIDA | 12,519 | 12,781 | 16,348 | 18,615 | 20,351 | 19,651 | 19,069 | 18,158 | 17,964 | 17,351 |
| 222 Excess Revenue over Expenses | (3,901) | 4,045 | 4,497 | 5,843 | 8,080 | 8,468 | 8,909 | 9,415 | 10,231 | 10,025 |
| 223 EBIDA | 6,568 | 14,654 | 17,882 | 20,208 | 22,005 | 21,449 | 21,065 | 20,343 | 20,332 | 19,918 |
| 224 Unrestricted Cash | 51,444 | 49,774 | 54,069 | 55,234 | 58,298 | 65,035 | 71,810 | 78,063 | 84,358 | 91,677 |
| 225 Long Term Debt | 13,442 | 15,484 | 16,754 | 12,951 | 9,073 | 5,742 | 2,871 | 392 | (399) | (399) |
| 226 | | | | · | | | | | ` ′ | ` ′ |
| 227 FTE Analysis | | | | | | | | | | |
| 228 Total FTE's | 1,301 | 1,342 | 1,350 | 1,357 | 1,365 | 1,379 | 1,393 | 1,407 | 1,420 | 1,434 |
| 229 | | | | | | | | | | · |
| 230 Profitability Ratios | | | | | | | | | | |
| 231 Operating Margin | 1.05% | 1.12% | 1.48% | 2.06% | 3.01% | 3.02% | 3.03% | 3.06% | 3.22% | 2.96% |
| 232 Operating EBIDA Margin | 6.44% | 6.61% | 8.18% | 9.01% | 9.52% | 8.90% | 8.35% | 7.69% | 7.36% | 6.88% |
| 233 Excess Margin | (2.07%) | 2.07% | 2.23% | 2.80% | 3.75% | 3.80% | 3.87% | 3.95% | 4.15% | 3.93% |
| 234 | | | | | | | | | | |
| 235 Capital Structure Ratios | | | | | | | | | | |
| 236 Debt to Capitalization | 17.62% | 19.61% | 21.21% | 17.69% | 13.64% | 9.11% | 5.46% | 2.57% | 0.33% | (0.31%) |
| 237 Debt Service Coverage | 1.93 | 4.55 | 4.95 | 4.73 | 5.21 | 5.12 | 5.97 | 6.81 | 8.09 | 25.21 |
| 238 Debt Service / Revenues | 1.81% | 1.65% | 1.79% | 2.05% | 1.96% | 1.88% | 1.53% | 1.25% | 1.02% | 0.31% |
| 239 Cushion | 15.12 | 15.46 | 14.95 | 12.94 | 13.79 | 15.53 | 20.35 | 26.14 | 33.55 | 116.05 |
| 240 | | | | | | | | | | |
| 241 Liquidity Ratios | | | | | | | | | | |
| 242 Days Cash on Hand | 102.84 | 100.30 | 107.11 | 106.88 | 109.82 | 117.76 | 125.10 | 130.67 | 136.15 | 142.40 |
| 243 Cash to Debt | 382.71% | 321.45% | 322.72% | 426.48% | 642.54% | 1132.62% | 2501.22% | 19914.03% | (21142.36%) | (22976.69%) |
| 244 | | | | | | | | | | |
| 245 Other Ratios | | | | | | | | | | |
| 246 Average Age of Plant | 10.62 | 11.21 | 9.90 | 10.11 | 11.36 | 13.10 | 14.88 | 17.46 | 19.76 | 21.10 |
| 247 Capital Spending Ratio | 133.80% | 139.49% | 80.93% | 74.48% | 76.30% | 81.28% | 88.72% | 101.06% | 111.82% | 117.18% |
| 248 | | | | | | | | | | |
| 249 Working Capital Ratios | | | | | | | | | | |
| 250 Days in Accounts Receivable | 38.40 | 38.29 | 38.39 | 38.40 | 38.40 | 38.29 | 38.39 | 38.40 | 38.40 | 38.29 |
| 251 Days in A/P and Accrued Expenses | 40.17 | 40.11 | 40.12 | 40.00 | 39.86 | 39.57 | 39.49 | 39.31 | 39.15 | 38.89 |

EXHIBIT D

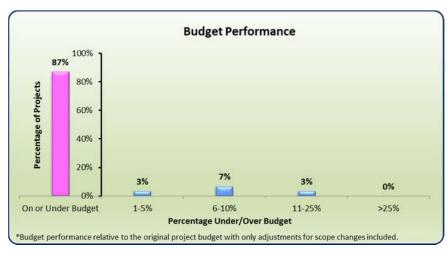
Staying On Budget - Epic's Track Record

Implementation Budget Performance

We understand the importance of on-budget implementations. 87% of major Epic projects¹ were completed on or under their budgets from August 2014 through January 2016. On average, organizations implementing these projects spent 87% of their original implementation budget.

Of the projects that spent more than their budget, none exceeded their budget by more than 25%. The most common causes for organizations to exceed their implementation estimate are an increase in project scope, an increase in project timeline, and project team staffing deficiencies.

Your Epic implementation team will help you to proactively monitor the budget and avoid potential overages (details on page 2).



"87% of major Epic projects were completed on or under their budgets"

Keys to Staying on Budget

<u>Engage executives and operational leaders as owners of the install.</u> Executive involvement sends a message to your organization about your commitment to the project—and to improving the way you deliver healthcare. Department and service line managers should work with your project team during the implementation to make the system successful in their areas. Our Readiness Programs provide you with a way to promote guided, focused stakeholder involvement and management throughout the implementation.

<u>Establish an effective governance structure.</u> Establish an executive steering committee to provide overall strategic direction for the implementation. This committee can then establish more detailed governance over each area and specialty. Epic can guide you through this process by helping you evaluate your current structures and making recommendations around how to adapt them for an effective implementation. Epic can also provide example governance models from successful customers.

<u>Staff your project team with your best people.</u> Project team members should be knowledgeable about your organization, motivated, well respected, and eager to create and adopt change. To help you identify the right people, Epic has staffing guides with information about the skills needed to succeed on a project team. In addition, consultations with Epic's HR staff can help you understand successful strategies and tools for hiring strong people.

<u>Choose the right champions</u>. Your project's clinical champions serve as a critical bridge between your project team and end users. They provide guidance around operational requirements, system design, and workflow and policy changes. They also support and promote the project to future end users, encourage their peers to participate in the design and validation of the system, and instill a sense of end-user ownership of your Epic system.

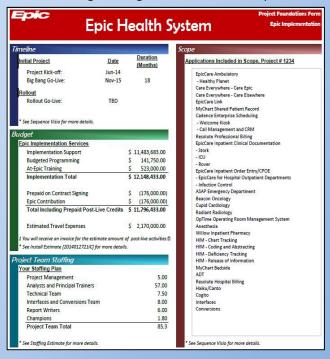
<u>Focus on top-notch training for your end users.</u> The stronger your pre-live training is, the more quickly you will begin to experience improvements in efficiency and productivity. Epic will provide specific, targeted recommendations for physician and other end-user training. In addition, Epic's comprehensive set of end-user training materials will give you a starting point in developing your curricula.

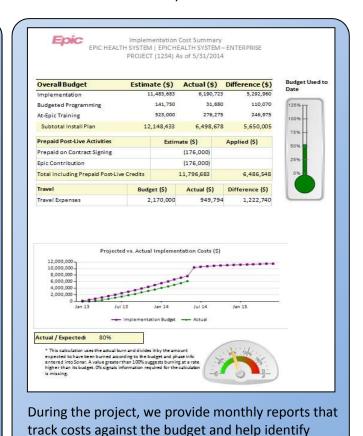
1. Includes all implementations of any of Epic's core application suites with budgets greater than \$3.5 million.

Proactively Monitoring the Budget

Epic's Implementation Directors work with a dedicated team of Epic budget advisors to provide your project leadership with the tools and advice needed to monitor your budget effectively. The screenshots below are examples of tools we use to monitor and communicate the status of the budget. Using these tools helps us proactively identify budget risks so we can work together to develop corrective actions when necessary.

At the beginning of the project, we use the project foundations process to establish a shared understanding of budget, timeline, and scope.





Epic Health System Most recent Install Plan from Accounting: **Implementation Directors** May-14 Refresh Data manage a budget toolkit 1,096,146 \$ 165,299 \$ 34,058 \$ 16,772 \$ 22,289 \$ 38,540 \$ 41,67 to estimate future costs, 456,716 334,168 identify potential overages, and take 499.416 232.511 211,235 55,670 \$ 15,095 \$ 26,074 84.743 12.880 corrective action. 9,392 \$ 24,278 5,709 \$ 12,500 25,136 \$ 2,850 \$ larity 43,200 21,753 15,738 2,766 268,495 312,573 260,713 67.906 S th Information Management Total Project lospital Billing 29,831 \$ 29,180 \$ 1,643 \$ 48,622 31.858 713.040 429,423 MR-Ambulatory MR-Inpatient Clinical Documentation MR-Inpatient Orders 379,594 385,729 343,548 381.388 Radiant Resolute Professional Billing 301 \$ 22,554 \$ systems/ HW 150,320 113,275 14,050 \$ 15,175 175 \$ 32.010 \$ Total Implementation 10,389,278 \$ 6,190,723 \$ 3,887,253 \$ 311,302 \$ 510,119 \$ 605,379 31,680 \$ xed Price Training - Application Training March 12,148,433 \$ 6,498,678 \$ 4,296,909 \$ 2,170,000 \$ 949,794 \$ 1,148,535 \$ 1,484,097 \$ 516,606 \$ 605,908 71,671 \$ 89,774 \$ 64,890

areas of concern.

We monitor travel expenses for our implementation team closely. We book travel far in advance and negotiate competitive rates with airlines, hotels, and car rental agencies. Actual travel costs can fluctuate with additional on-site time and changing airline and hotel rates.